



A PROJECT REPORT ON
"Synthesis and Characterization of zinc oxide
Nanoparticles by using Cactus leaf extract and it's
Antimicrobial activity"

SUBMITTED TO

TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE
2023-2024

AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN INORGNIC CHEMISTRY
BY

GAIKWAD VISHAL ASHOK

Roll No-16071

UNDER THE GUIDANCE OF

Miss. Prof.R.T.Gadadare

DEPARTMENT OF CHEMISTRY

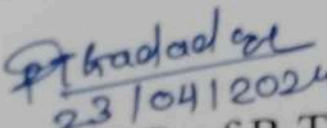



**TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE
2023-2024**

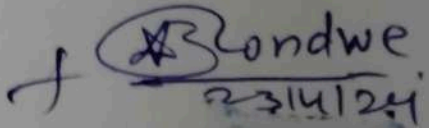
Certificate

This is to certify that, **MR. VISHAL ASHOK GAIKWAD** has successfully completed the project. “**synthesis and characterization of zinc oxide nanoparticles by using Cactus leaf extract and it's antimicrobial activity.** Which is being submitted here with as a partial fulfillment of the award of degree, master of science in Inorganic chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 23/04/2024


23/04/2024
Miss. Prof. R.T. Gadadare
Project guide


24/04/2024


23/04/2024
HOD Chemistry



A PROJECT REPORT ON
“Comparative Study of TiO_2 synthesized by Chemical as well as
Green approach using Cactus leaf extract”

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE

AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN INORGANIC CHEMISTRY BY

THOMBARE KARAN SOMNATH

Roll No-16074

UNDER THE GUIDANCE OF
Miss. Prof. R. T. GADADARE
DEPARTMENT OF CHEMISTRY

Certificate

This is to certify that Mr. Karan Somnath Thombare has successfully completed the project. "Comparative Study of TiO_2 synthesized by Chemical as well as green approach using Cactus leaf extract". Which is being submitted here with as a partial fulfillment of the award of degree, master of science in Inorganic Chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE:

R. T. Gadadare

20/04/2024

Miss. Prof. R. T. Gadadare
(Project Guide)

K. Somnath Thombare
20/4/24.
(HOD Chemistry)

Examined

[Signature]
29/04/24

External
Examiner



A PROJECT REPORT ON
"Synthesis and characterization of metal oxide nanoparticles
by using Cactus leaf extract and it's antimicrobial activity".

SUBMITTED TO

**TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE**

**AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN INORGANIC CHEMISTRY BY**

JAMDAR PRATIKSHA DATTATRAY

Roll No- 16078

UNDER THE GUIDANCE OF

Miss. Prof. R. T. GADADARE

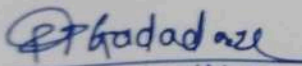
**DEPARTMENT OF CHEMISTRY
TULJARAM CHATURCHAND COLLEGE
OF ARTS, COMMERCE AND SCIENCE, BARAMATI.PUNE**

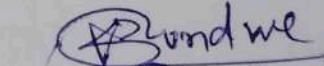
2023-24

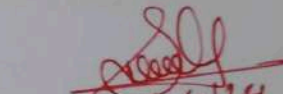
Certificate

This is to certify that Miss Jamdar Pratiksha Dattatray has successfully completed the project. "Synthesis and characterization of metal oxide nanoparticles by using Sonneratia Alba Apetala leaf extract and its antimicrobial activity. Which is being submitted here with as a partial fulfilment of the award of degree, Master of Science in Inorganic chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 23/04/2024


23/04/24
Miss. Prof. R.T.GADADARE
Project guide


23/04/24
HOD Chemistry


23/04/24
External
Examiner

T. C. College, Baramati



A PROJECT REPORT ON

“Synthesis and characterization of metal oxide nanoparticles by using Cactus leaf extract and it's antimicrobial activity”

SUBMITTED TO

**TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE**

**AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN INORGANIC CHEMISTRY BY
AHIWALE SAYALI DEVDUTTA**

Roll No-16081

UNDER THE GUIDANCE OF

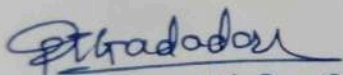
Miss. Prof. R. T. GADADARE

DEPARTMENT OF CHEMISTRY. 2023-24

Certificate

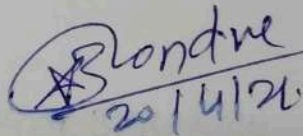
This is to certify that Miss **Ahiwale Sayali Devdutta** has successfully completed the project. "**Synthesis and characterization of metal oxide nanoparticles by using Cactus leaf extract and it's antimicrobial activity.**" Which is being submitted here with as a partial fulfillment of the award of degree, master of science in Inorganic chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 20/04/2024



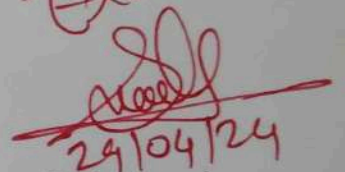
20/04/2024
Miss. Prof. R.T.GADADARE

Project guide



HOD Chemistry

Examined.



20/04/24
External

Examiner



A Project Report on

“GREEN SYNTHESIS OF NICKEL OXIDE NANOPARTICLES USING HIBISCUS FLOWER EXTRACT.”

Submitted To,

**THE DEPARTMENT OF CHEMISTRY
TULJARAM CHATURCHAND COLLEGE, BARAMATI**

(Autonomous)

DIST – PUNE.

As Partial Fulfilment of M.Sc. Degree

2023 – 2024

Submitted By,

Mr. POTE RAJDEEP YUVRAJ.

Mr. KHATKE VIJAY MAHADEV.

Under the guidance of

Prof. G. D PIRALE



ANEKANT EDUCATION SOCIETY'S
TULJARAM CHARTURCHAND COLLEGE, BARAMATI
(Autonomous)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work incorporated in the project report entitled, "GREEN SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE NANOPARTICLES USING HIBSCUS FLOWER EXTRACT." Submitted by **Mr. Pote Rajdeep Yuvraj, Mr. Khatke Vijay Mahadev** for the partial fulfilment of practical course **PSCHI-245** for the degree of the Master of Science in "INORGANIC CHEMISTRY." The project was carried out in excellent / Satisfactorily manners under supervision of Prof. **Pirale G.D** in department of chemistry.

Pirale
20/4/24

Prof. G.D. PIRALE

(Project Guide)

Bhondwe

DR. R.S. BHONDWE

(PG Co-Ordinator)

P. Gadade
24/04/24

P. Gadade
24/04/24

EXAMINER

Examined

Bhondwe
20/4/24

PROF. Dr.

(Head of Chemistry Department)



A

Project Report On

"SYNTHESIS AND CHARACTERIZATION OF 2-AMINOTHIAZOLE BASED METAL COMPLEXES"

Submitted to

**THE DEPARTMENT OF CHEMISTRY
TULAJARAM CHATURCHAND COLLEGE, BARAMATI,
DIST: PUNE**

As a Partial Fulfilment of M. Sc. Degree

2023-2024

Submitted By,

Miss- HAKE RUTUJA GANPAT

Mr- MALAVE NIKHIL ASHOK

Under Guidance of

Prof. G.D. PIRALE



ANEKANT EDUCATION SOCIETY'S
TULAJARAM CHATURCHAND COLLEGE, BARAMATI,
THE DEPARTMENT OF CHEMISTRY

Page border

CERTIFICATE

This is to certify that the work incorporated in the report entitle **"SYNTHESIS AND CHARACTERIZATION OF 2-AMINOTHIAZOLE BASED METAL COMPLEXES"** submitted by Miss- Hake Rutuja Ganpat, Mr-Malve Nikhil Ashok for the partial fulfilment of practical course **PSCHI 246** for the Degree of the Master of Science in **"INORGANIC CHEMISTRY"**. The Project was carried out in excellent / satisfactorily manner sounder supervision of **Prof. G.D. PIRALE** in Department of Chemistry **TULAJARAM CHATURCHAND COLLEGE, BARAMATI,**

G. D. PIRALE
20/04/2024

Prof. G. D. PIRALE

(Project Guide)

R. S. BHONDAWE

Prof. R. S. BHONDAWE

(PG Co-ordinator)

R. S. BHONDAWE

R. S. BHONDAWE

Prof. R. S. BHONDAWE

(Head of Department)

R. S. BHONDAWE
24/04/2024
R. S. BHONDAWE
24/04/2024
EXAMINER

Examined



A

Project Report on

**“ANALYSIS OF MICROPLASTIC IN ENVIRONMENTAL
SAMPLE BY SPECTROSCOPY METHOD”**

project report submitted to

The Department of Chemistry

Tuljaram Chaturchand College of Arts, Science And Commerce,

Baramati (Autonomous)

As partial fulfilment of M.sc degree

(2023-24)

BY

Miss. Shitole Priti Umesh(16227)

Miss. Attar Pakija Latib(16231)

Miss. Kharat Prajkta Vijaykumar(16230)

Under the Guidance of

Prof. Maharudra A. Dudhe



ANEKANT EDUCATION SOCIETY' S

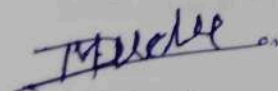
**Tuljaram Chaturchand College of Arts, Science And Commerce,
Baramati (Autonomous)**


DEPARTMENT OF CHEMISTRY

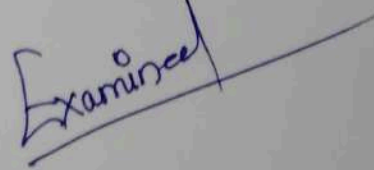
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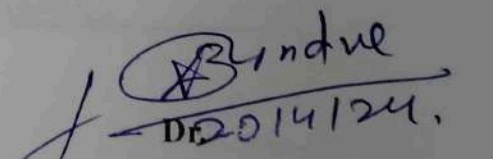
This is to certify that the work incorporated in the project report entitled "**Analysis of microplastic in environmental sample by spectroscopy method.**" submitted by Shitole Priti U. ,Attar Pakija L. ,Kharat Prajkta V. for the partial fulfilment of practical course PSCHA246 or the degree of master of science in Analytical Chemistry the project was carried out in excellent/satisfactory manner under my supervision in Department of Chemistry,

Tuljaram Chaturchand College of Arts, Science And Commerce, Baramati (Autonomous).


Prof. M.A.Dudhe
(Project Guide)


External
(Examiner)


Examiner


Head Department of Chemistry

"ANEKANT EDUCATION SOCIETY"

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE &
COMMERCE, BARAMATI-413102**
(Autonomous)



A PROJECT REPORT ON
"SYNTHESIS, CHARACTERIZATION & ANTIMICROBIAL
STUDY OF CdS NANOPARTICLES"

SUBMITTED TO
DEPARTMENT OF CHEMISTRY
SAVITRIBAI PHULE PUNE UNIVERSITY

By
Mr. Mandhare Omkar Balasaheb.
Mr. Deokar Sanket Trimbak.

UNDER THE GUIDENCE OF
Miss. Sonali P. Nale

2023-2024


"ANEKANT EDUCATION SOCIETY"

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
& COMMERCE, BARAMATI-413102**
(Autonomous)

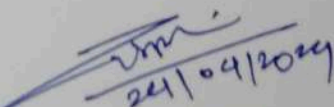


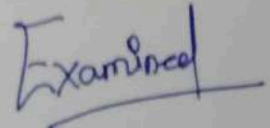
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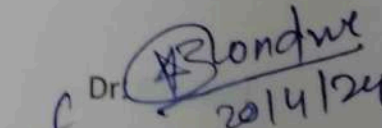
This is to certify that Mr. Mandhare Omkar Balasaheb, Mr. Deokar Sanket Trimbak, regular students of class M.Sc.-II (Chemistry) has completed project on "Synthesis, Characterization & Antimicrobial Study Of CdS Nanoparticals" in the partial fulfilment of the program in M.Sc. II as per the syllabus laid by Savitribai Phule Pune University, during the academic year 2023-2024 conducted under my supervision.


20/04/2024,
Miss. Sonali P. Nale

PROJECT
GUIDE


24/04/2024
EXTERNAL
EXAMINER


Examined

Dr. 
20/4/24.
HEAD OF
DEPARTMENT

PLACE :- BARAMATI

DATE :- 24/04/2024

“ANEKANT EDUCATION SOCIETY”
TULJARAM CHATURCHAND COLLEGE OF ARTS,
SCIENCE & COMMERCE, BARAMATI-413102
(Autonomous)



A PROJECT REPORT ON
**Adsorption studies of methylene blue on coconut shell based
low cost adsorbent.**

SUBMITTED TO
DEPARTMENT OF CHEMISTRY
SAVITRIBAI PHULE PUNE UNIVERSITY

By

Miss. Varsha Pandit Kanhere

Miss. Pratiksha Sanjay Burungale

Miss. Shrushti Balaso Atole

UNDER THE GUIDENCE OF

Miss. Sonali P. Nale

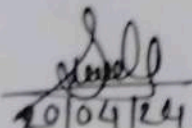
2023-2024

"ANEKANT EDUCATION SOCIETY"
**TULJARAM CHATURCHAND COLLEGE OF ARTS,
SCIENCE & COMMERCE, BARAMATI-413102**
(Autonomous)

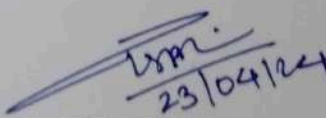


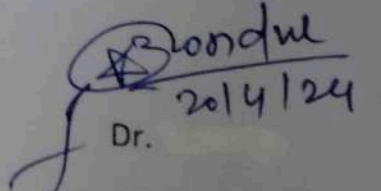
CERTIFICATE

This is to certify that **MISS. VARSHA PANDIT KANHERE, MISS. PRATIKSHA SANJAY BURUNGALE, MISS. SHRUSHTI BALASO ATOLE**, regular students of class M.Sc.-II (Chemistry) has completed project on **ADSORPTION STUDIES OF METHYLENE BLUE ON COCONUT SHELL BASED LOW COST ADSORPTION** in the partial fulfilment of the program in M.Sc. II as per the syllabus laid by Savitribai Phule Pune University, during the academic year 2023-2024 conducted under my supervision.


20/04/24.
Miss. Sonali P. Nale

PROJECT
GUIDE


23/04/24
EXTERNAL
EXAMINER


20/4/24.
Dr.
HEAD OF
DEPARTMENT

PLACE: BARAMATI



A Project Report on

**“GREEN SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE
NANOPARTICLES USING ORANGE PEEL EXTRACT.”**

Submitted To,

**THE DEPARTMENT OF CHEMISTRY
TULJARAM CHATURCHAND COLLEGE, BARAMATI**

(Autonomous)

DIST – PUNE.

As Partial Fulfilment of M.Sc. Degree

2023 – 2024

Submitted By,

Mr. Wagh Omkar Suresh.

Mr. Sodmise Amol kamalakar

Mr. Bokil Prajwal Prashant

Mr. Sonwane Tushar Rajendra

Under the guidance of

Prof. G. D PIRALE



ANEKANT EDUCATION SOCIETY'S

TULJARAM CHARTURCHAND COLLEGE, BARAMATI

(Autonomous)

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work incorporated in the project report entitled. "GREEN SYNTHESIS OF NICKEL OXIDE NANOPARTICLES USING ORANGE PEEL EXTRACT." Submitted by **Mr.. Wagh Omkar Suresh, Mr.. Sodmise Amol kamalakar , Mr.. Bokil Prajwal Prashant, Mr .. Sonwane Tushar Rajendra** for the partial fulfilment of practical course **PSCHA246** for the degree of the Master of Science in "INORGANIC CHEMISTRY." The project was carried out in excellent / Satisfactorily manners under supervision of Prof. Pirale G.D in department of chemistry.

P.D. Pirale
20/4/24

Prof. G.D. PIRALE

(Project Guide)

Bhondwe

DR. R.S. BHONDWE

(PG Co-ordinator)

Bhondwe
24/4/24.

PROF.Dr.

(Head of Chemistry Department)

Alurkar
24/04/2024
EXAMINER

Examined



A PROJECT REPORT ON
"GREEN SYNTHESIS OF CROMIUM OXIDE (Cr_2O_3) NANOPARTICLES BY
USING CACTUS LEAF EXTRACT AND ITS ANTIMICROBIAL ACTIVITIES"

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE, BARAMATI
DIST - PUNE.

As Partial Fulfilment of M.Sc. Degree
2023 - 2024

SUBMITTED BY
NALE NIKITA DATTATRAY

UNDER THE GUIDANCE OF
Prof. R. T GADADARE



Certificate

This is to certified that they work incorporated in the project NALE NIKITA DATTATRAY has successfully completed the project work on "Green Synthesis Of Cromium Oxide (Cr_2O_3) Nanoparticlesby Using Cactus Leaf Extract And Its Antimicrobial Activities" is being submitted herewith as a partial fulfillment of the award of degree, master of science in Analytical chemistry, at TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI, PUNE

Result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this reported has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 22/04/2024

R. T. Gadadare
22/04/24

Prof. R. T GADADARE

Project Guide

Bondwe

Head deapartment of chemistry

T. C. College Baramati.

EXAMINER

Examiner



A PROJECT REPORT ON
"GREEN SYNTHESIS OF SILVER NANOPARTICLES BY
USING CACTUS LEAF EXTRACT AND ITS
ANTIMICROBIAL ACTIVITIES"

SUBMITTED TO

TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE

AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY

BY

GULUMKAR PRITAM RAMDAS

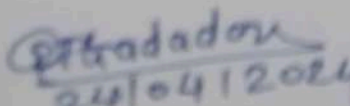
Roll No-16233

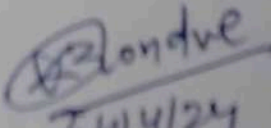
UNDER THE GUIDANCE OF
Miss. Prof. R. T. GADADARE
DEPARTMENT OF CHEMISTRY

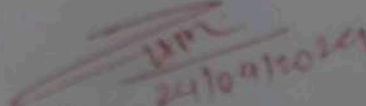
Certificate

This is to certify that Mr. Gulumkar Pritam Ramdas has successfully completed the project "Green synthesis of silver nanoparticles by using cactus leaf and its antimicrobial activities". Which is being submitted here with as a partial fulfillment of the award of degree, master of science in Analytical Chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 24/04/2024


24/04/2024
Miss. Prof. R. T. Gadadare
(Project Guide)


24/4/24
(HOD Chemistry)


24/04/2024
External
Examiner

A PROJECT REPORT ON
"Synthesis , characterization of manganese oxide
nanoparticles
by using groundnut shell extract and it's antimicrobial
activity"

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY
BY

Londhe kiran rajendra

Roll No-16236

UNDER THE GUIDANCE OF
Miss. Prof.R.T.Gadadare
DEPARTMENT OF CHEMISTRY



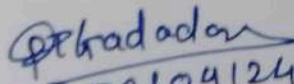
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE

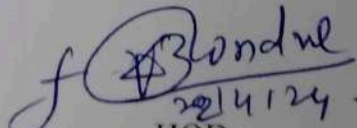
2022-23

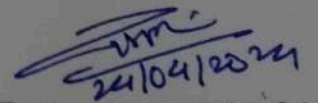
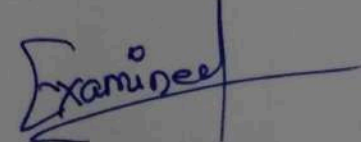
Certificate

This is to certify that, Miss., **Londhe Kiran Rajendra** has successfully completed the project. "**synthesis, Characterization of manganese oxide nanoparticles by using groundnut shell extract and it's antimicrobial activity.**" Which is being submitted here with as a partial fulfillment of the award of degree, Master of Science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body-

DATE: 22/04/2024


22/04/24
Miss. Prof. R.T. Gadadare
Project guide


22/4/24
HOD


24/04/2024
External examiner


A PROJECT REPORT ON
"Synthesis and characterization of metal oxide nanoparticles
by using groundnut extract and it's antimicrobial activity"

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY
BY

Masal Nikita Balbhim

Roll No-16232

UNDER THE GUIDANCE OF
Miss. Prof.R.T.Gadadare
DEPARTMENT OF CHEMISTRY



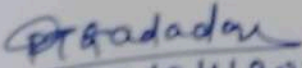
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE

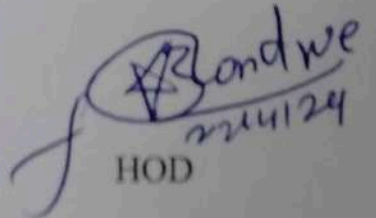
2022-23

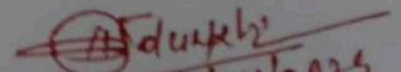
Certificate

This is to certify that, Miss. Masal Nikita Balbhim, Londhe Kiran Rajendra has successfully completed the project. "synthesis and characterization of metal oxide nanoparticles by using groundnut leaf extract and it's antimicrobial activity. Which is being submitted here with as a partial fulfillment of the award of degree, Master of Science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body-

DATE: 22/04/2024


22/04/2024
Miss. Prof. R.T. Gadadare
Project guide
Examiner


22/4/24
HOD


22/04/2024
External
EXAMINER

A
PROJECT REPORT
ON
Pyridine based Ionic liquid an alternate green catalyst for organic
synthesis.

SUBMITTED
To
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
AND COMMERCE, BARAMATI, PUNE



AS A PARTIAL FULFILLMENT OF THE DEGREE
MASTER OF SCIENCE IN
ORGANIC CHEMISTRY

By

MR. PAWAR SWAPNIL SITARAM
MR.KOLEKAR SHANKAR VILAS
MR.SHIPKULE GANESH ANIL

UNDER THE GUIDANCE OF

Dr. N. C. Dige

M. Sc. Ph. D.

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND
COMMERCE, BARAMATI, PUNE

2023 - 24

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE



CERTIFICATE

This is to certify that ,MR. PAWAR SWAPNIL SITARAM MR.KOLEKAR SHANKAR VILAS MR.SHIPKULE GANESH ANIL has successfully completed the project work on "Pyridine based Ionic liquid an alternat green catalyst for organic synthesis" which is being submitted herewith as a partial fulfillment for the award of degree, Master of Science in Organic Chemistry, Tuljaram Chaturchand College, Baramati is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE- 22/04/2024

Examined

N. C. Dige

Dr. N. C. Dige
Project Guide,
Dept. of Chemistry,
TC College,
Baramati

Bondwe
23/4/24

EXAMINER

Bondwe

PG coordinator
Dept. of Chemistry

A
PROJECT REPORT
ON
**Synthesis of Morphiline Based Ionic Liquids and
their applications for the synthesis of heterocyclic
compounds**

SUBMITTED

To

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
AND COMMERCE, BARAMATI, PUNE**



**AS A PARTIAL FULFILLMENT OF THE DEGREE
MASTER OF SCIENCE IN
ORGANIC CHEMISTRY**

By

MISS. NALWADE RUTUJA BALU

MISS. PAWAR NIKITA SHIVAJI

MISS. LONDHE VARSHARANI AJINATH

UNDER THE GUIDANCE OF

Dr. N. C. Dige

M. Sc. Ph. D.

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND

COMMERCE, BARAMATI, PUNE

2023 - 24

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE



CERTIFICATE

This is to certify that, MISS. NALAWADE RUTUJA BALU MISS. PAWAR NIKITA SHIVAJI MISS. LONDHE VARSHARANI AJINATH has successfully completed the project work on "Synthesis of Morphiline Based Ionic Liquids and their applications for the synthesis of heterocyclic compounds." which is being submitted herewith as a partial fulfillment for the award of degree, Master of Science in Organic Chemistry, Tuljaram Chaturchand College, Baramati is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body

DATE- 22/04/2024

Examined

Dr. N. C. Dige
Project Guide,
Dept. of Chemistry,
TC College,
Baramati

22/4/24
EXAMINER

PG coordinator
Dept. of Chemistry



A project report on
"Reaction of hydrzones derived from electron rich ketones
with Vilsmeier-Haack reagent"

Submitted to
Department Of Chemistry

Performed by

Mr : Nalawade Omkar Dhananjay .

Mr : Gaikwad Rohit Nagnath .

Under the Guidance of

Dr. Landge V.P.

Department of Chemistry

Anekant Education Society's

Tuljaram Chaturchand College of

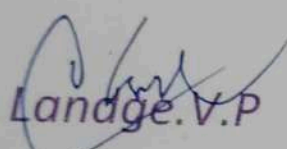
Arts , Commerce and Science

(Autonomous)

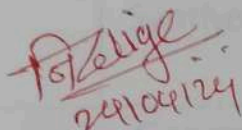
2023-2024

Certificate

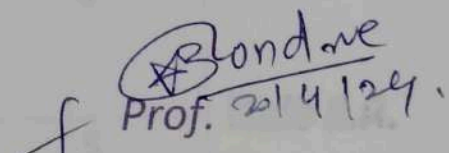
This is to certify that the work incorporated in the project report on "Reaction of hydrazone derived from electron rich ketone with Vilsmeier-Haack reagent." Submitted by **Mr . Nalawade Omkar Dhananjay , Mr . Gaikwad Rohit Nagnath**. Students to Arts , Commerce and Science college, Bramati (Autonomous), affiliated to Savitribai Phule Pune University in paratial requirement for the post graduate degree in Organic Chemistry.


Dr. Ladge. V.P

Project Guide


24/10/24

External Examiner


Prof. 21/4/24.
Head of dept.

A
PROJECT REPORT
ON
**Synthesis, characterization and Application of surfactant based ionic
liquids**

SUBMITTED
To
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND
COMMERCE, BARAMATI, PUNE



AS A PARTIAL FULFILLMENT OF THE DEGREE
MASTER OF SCIENCE IN
ORGANIC CHEMISTRY

By

Miss. SHELAKE SHIVANI DIPAK

Miss. CHAVAN KETAKI VISHAL

Miss. BANKAR PRATIKSHA
RAJENDRA

UNDER THE GUIDANCE OF

Dr. Nilam C. Dige

M. Sc. Ph. D.

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE 2024 - 2025



CERTIFICATE

This is to certify that, Miss. SHIVANI DIPAK SHELAK, CHAVAN KETAKI VISHAL, BANKAR PRATIKSHA RAJENDRA has successfully completed the project work on "Synthesis, characterization and Application of Surfactant based ionic liquids" which is being submitted herewith as a partial fulfillment for the award of degree, Master of Science in Organic Chemistry, Tuljaram Chaturchand College, Baramati is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE-20/4/2024

Examined

N. C. Dige

Dr. N. C. Dige
Project Guide,
Dept. of Chemistry,
TC College,
Baramati

H. Chavhan
23/4/24
Examiner

B. D. Bandwe
20/4/24

PG coordinator
Dept. of Chemistry

A

PROJECT REPORT ON

Synthesis of task specific ionic liquids for the synthesis of heterocyclic compounds

SUBMITTED

TO

TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND COMMERCE,
BARAMATI, PUNE



AS A PARTIAL FULFILLMENT OF THE DEGREE

MASTER OF SCIENCE IN ORGANIC CHEMISTRY

By

Miss. PAWAR KAJAL VIJAY

Miss. ZOND MAYURI BALASO

Miss. LONDHE GAYATRI DATTATRAY

UNDER THE GUIDANCE OF

Dr. Nilam C. Dige

M. Sc. Ph. D.

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI,
PUNE

2023 - 24

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE,
BARAMATI, PUNE



CERTIFICATE

This is to certify that, Miss. PAWAR KAJAL VIJAY, Miss. ZOND MAYURI BALASO and Miss. LONDHE GAYATRI DATTATRAY has successfully completed the project work on "Synthesis of task specific ionic liquids for the synthesis of heterocyclic compounds" which is being submitted herewith as a partial fulfillment for the award of degree, Master of Science in Organic Chemistry, Tuljaram Chaturchand College, Baramati is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 10/4/2024

N. C. Dige

Dr. N. C. Dige
Project Guide,
Dept. of Chemistry,
TC College,
Baramati

Bloodwe

PG coordinator
Dept. of Chemistry

Bloodwe
20/4/24

Head,
Dept. of Chemistry,

Examined
A. W. Kulkarni
23/04/24



Anekant Education Society's,
Tuljaram Chaturchand College, Baramati 413102
Affiliated to Savatribai Phule Pune University, Pune.

Project Report on,

Synthesis, Charecterisation and Densisty functional theory (DFT) study of 3-(2-aminothiazol-4-yl)-2H-chromen-2-one

PROJECT REPORT

SUBMITTED TO,

DEPARTMENT OF CHEMISTRY,

As partial fulfilment of MSc degree,

2023-2024

By

Suravase Chetan Balasaheb

Roll No:- 15992

Under the guidance of

Dr. Bhondwe R.S.

MSc, PhD, SET

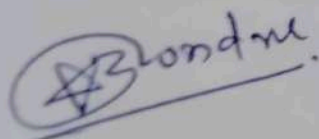


ANEKANT EDUCATION SOCIETY'S
TULJARAM CHATURCHAND COLLEGE, BARAMATI 413102

DEPARTMENT OF CHEMISTRY

CERTIFICATE

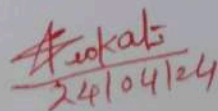
This is to certify that the work incorporated in the project report entitled “**Synthesis, charecterisation and densisty functional theory (DFT) study of 3-(2-aminothiazol-4-yl)-2H-chromen-2-one**” submitted by **Suravase Chetan Balasaheb** for the partial fulfilment of practical course PSCHO-246 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent/satisfactory manner under my supervision in Department Of Chemistry, Tuljaram Chaturchand College, Baramati.



Dr. Bhondwe R.S.

Project Guide

Examined


24/04/24

External



Head of Department Chemistry



Department of Chemistry

Tuljaram Chaturchand College of Arts, Commerce and Science,

Baramati, Dist.-Pune

Year: 2023-24

A Project Report

On

“Green Synthesis of Metal Complexes”

Submitted by

Chikane Rushikesh Kakaso

Mr. Chavare Nikhil Baban

Mr. Chavan Omakar Abhimanyu

Roll No: 15974

Roll No :15962

Roll No : 16000

Exam No:

Exam No :

Exam No :

Under the guidance of

Dr Bhondwe R.S



Department of Chemistry

CERTIFICATE

This is to certify the work incorporated in the project report entitled “**Green Synthesis of Metal Complexes**” submitted by **Mr. Chikane Rushikesh Kakaso, Mr. Chavare Nikhil Baban & Mr. Chavan Omakar Abhimanyu** for the award of the degree of Master of Science in Chemistry by Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati was carried out by the candidate under the supervision of **Dr Bhondwe R.S** Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati during April 2024.

PG Coordinator

Examiner

HOD

Department of Chemistry

Place: Baramati

Date:



Anekant Education Society's,
Tuljaram Chaturchand College, Baramati 413102
Affiliated to Savitribai Phule, Pune University, Pune.

Project Report on,
"Synthesis, Characterization and Antimicrobial Activity of some Metal
Complexes Derived from 2-amino- 4-phenylthiazole".

PROJECT REPORT

SUBMITTED TO,

DEPARTMENT OF CHEMISTRY,

As partial fulfilment of M.Sc. degree,

2023-2024

By,

Doifode Punam Hanumant

Tate Pranali Prabhakar

Under the guidance of

Prof. Dr. Bhondwe R.S.

(MSc, PhD, SET)

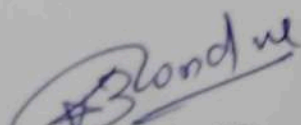


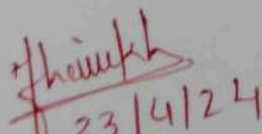
ANEKANT EDUCATION SOCIETY'S,
TULJARAM CHATUARCHAND COLLEGE, BARAMATI 413102
DEPARTMENT OF CHEMISTRY

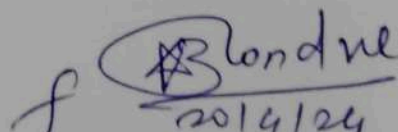
CERTIFICATE

This is to certify that the work incorporated in the project entitled "Synthesis, Characterization and Antimicrobial Activity of some Metal Complexes Derived from 2-amino-4-phenylthiazole". Submitted by Doifode Punam. Hanumant. & Tate Pranali Prabhakar. for the partial fulfilment of practical course PSCHO-246 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent/satisfactorily manner under my supervision in Department of Chemistry, Tuljaram Chaturchand College, Baramati.

Examined.


Project Guide


23/4/24
External


20/4/24
Head, Department of Chemistry



A PROJECT TITLE ON

“Synthesis, Characterization and Computational study of Azo Dyes”

Submitted to,

ANEKANT EDUCATION SOCIETY'S

TULJARAM CHATURCHAND COLLEGE, BARAMATI,

DIS- PUNE.

DEPARTMENT OF CHEMISTRY

YEAR: 2023 – 2024

Submitted by,

PARKALE MOHINI DATTATRAYA

Exam No:

Seat No:

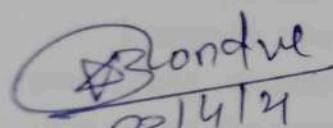
Under the guidance of

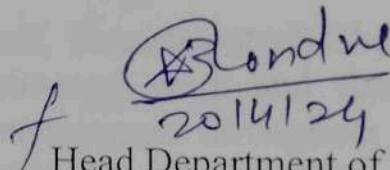
Dr. Bhondawe R. S.

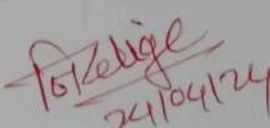
M.sc, PhD, SET.

CERTIFICATE

This is to certify that the work incorporated in the project report entitled "The synthesis, purification and characterization of N-Heterocyclic compounds" Submitted by **Parkale Mohini Dattatraya** for the partial fulfilment of practical course PSCHO-246 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent /satisfactorily manner under my supervision in Department of Chemistry, Tuljaram Chaturchand College, and Baramati.


20/4/24
Project Guide


20/4/24
Head Department of Chemistry

Examined

24/04/24
External



A PROJECT REPORT ON
**“Synthesis and characterisation of 2(3aryl 4-formylpyrazol-1yl)
thiazole derivatives”**

SUBMITTED TO
TULJARAM CHARTURCHAND COLLEGE, BARAMATI
DIST - PUNE.

As Partial Fulfilment of M.Sc. Degree
2023 - 2024

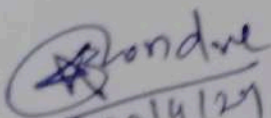
SUBMITTED BY
MIND PANKAJ CHANDRAKANT (15986)
KADAM ABHAYSINHA VITTHAL(15954)
SALVE YASH NAGSEN (15984)

UNDER THE GUIDANCE OF
Prof. Dr, R.S.BHONDWE

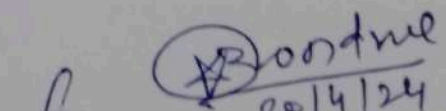


CERTIFICATE

This is to certify that the work incorporated in the project report entitled “Synthesis and characterisation of 2(3aryl 4-formylpyrazol-1yl) thiazole derivatives” submitted by Mind Pankaj Chandrakant, Kadam Abhaysinha Vitthal, Salve Yash Nagsen for the partial fulfilment of practical course PSCHO-246 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent/satisfactory manner under my supervision in Department of Chemistry, Tuljaram Chaturchand College, Baramati.


(Project Guide)

Examined
Kadam
23/04/24
(External)


(Head Department Of Chemistry)



A PROJECT REPORT ON

“SYNTHESIS OF CHALCONE”

SUBMITTED TO

TULJARAM CHARTURCHAND COLLEGE, BARAMATI DIST -
PUNE.

As Partial Fulfilment of M.Sc. Degree 2023 - 2024

SUBMITTED BY

NICHAL BUDHHABHUSHAN DILIP

UNDER THE GUIDANCE OF

Prof. Dr BHONDAWE R. S



ANEKANT EDUCATION SOCIETY'S,

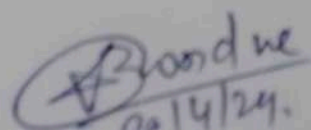
TULJARAM CHATUARCHAND COLLEGE,

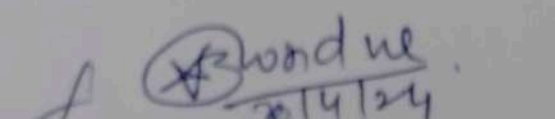
BARAMATI 413102

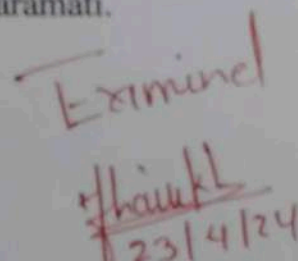
DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work incorporated in the project entitled "Synthesis and Characterization of Chalcone". Submitted by Nichal Buddabhusan. for the partial fulfilment of practical course PSCHO-5406 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent/satisfactorily manner under my supervision in Department Of Chemistry, Tuljaram Chaturchand College, Baramati.


20/4/24.
(Project Guide)


20/4/24
(Head, Department of Chemistry)


23/4/24
External



A Project Report on

**“SYNTHESIS AND CHARACTERIZATION OF SILVER
NANOPARTICLES BY USING ALOE VERA LEAF EXTRACT AND IT'S
ANTIMICROBIAL ACTIVITY”**

Submitted to

**TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI, PUNE**

**As a partial fulfilment of the degree
master of science in organic chemistry**

By

TAKALE SAHITA RAVINDRA (16003)

Under the guidance of

Miss. Prof. F. H. SHAIKH

Department of Chemistry

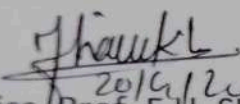
**Tuljaram Chaturchand College of Arts, Commerce and Science,
Baramati.Pune**

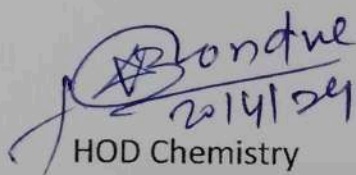
2023-24

Certificate

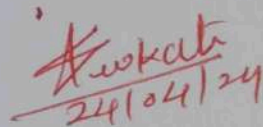
This is to certify that. Miss. TAKALE SAHITA RAVINDRA has successfully completed the project.
"Synthesis and characterization of silver nanoparticles by using ALOE VERA leaf extract and its antimicrobial activity. Which is being submitted here with as a partial fulfillment of the award of degree, master of science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE:


20/4/24
Miss. Prof. F.H. SHAIKH
Project guide


20/4/24
HOD Chemistry

Examined.


24/04/24

External
Examiner



Department of Chemistry

Tuljaram Chaturchand College of Arts, Commerce and Science,

Baramati, Dist.-Pune

Year: 2023-24

A Project Report

On

“Synthesis Characterization and Calculation of Economy of Schiff Bases Formation and its Application”

Submitted by

Umap Prathamesh Popat

Roll No: 15961

Exam No:

Karche Tejas Sunil

Roll No: 15957

Exam No:

Under the guidance of

Prof. Shaikh F. H.




Department of Chemistry

Certificate

This is to certify that the work incorporated in the project “**Synthesis Characterization and Calculation of Economy of Schiff Bases Formation and its Application**” Submitted by **Mr. Umap Prathamesh Popat and Mr. Karche Tejas Sunil** for the award of the degree of Master of Science in Chemistry by Department of Chemistry, Tulajaram Chaturchand College of Art, Commerce and Science Baramati was carried out by the candidate under the supervision of **Prof. Shaikh F. H.** Department of Chemistry Tulajaram Chaturchand College of Art, Commerce and Science, Baramati during April 2024.


PG Coordinator

Examined
A. Kokate
23/04/24
Examiner


HOD
Department of Chemistry

Place: Baramati

Date:



Anekant Education Society s

TuljaramChaturchand College, Baramati 413102

Affiliated to SavitribaiPhule,PuneUniversity,Pune

Project Report On,

“Synthesis, Characterization and Applications of Metal Oxide Nanoparticles (MgO, MoO₃) by Green Method”

PROJECT REPORT SUBMITTED TO,

DEPARTMENT OF CHEMISTRY

As partial fulfillment of M.Sc degree 2023-24

By,

Mr. Kare Shripad Ramchandra

Mr. Dhaigude Sani Daulat

Mr. Shelke Akshay Bhausahab

Miss. Chavan Anushka Bharat

Under the guidance of

Prof. Deokate S.A.



ANEKANT EDUCATION SOCIETYS,
TULJARAM CHATURACHAND COLLEGE,
BARAMATI 413102

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work incorporated in the project report entitled “Synthesis, Characterization and Applications of Metal Oxide Nanoparticles (MgO, MoO) by Green Method” submitted by Kare Shripad Ramchandra, Dhaigude Sani Daulat, Shelke Akshay Bhausahab, Chavan Anushka Bharat. for the partial fulfillment of practical course PSCHO- 245 for the degree of Master of Chemistry in Organic Chemistry. The project was carried out in excellent /satisfactory manner under my supervision in Department Of Chemistry Tuljaram Chaturchand College, Baramati

Deokate
20/04/24
Prof. Deokate S.A.

(Project Guide)

Bondve
20/4/24
(Head, Department of Chemistry)

Examined

Chavankh
23/4/24
External



Department of Chemistry
Tuljaram Chaturchand College of Arts, Commerce and Science,

Baramati, Dist.-Pune

Year: 2023-24

A Project Report

On

**Synthesis Characterization and Applications of Cobalt,
Manganese and Nickel Nanoparticles**

Submitted by

Kharat Suhasini Yuvraj

Roll No: 15960

Exam No:

Kale Priyanka Balu

Roll No: 15990

Exam No:

Namdas Archana .A

Roll No:16001

Exam No:

Under the guidance of

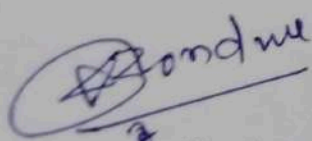
Prof. Deokate S.A.

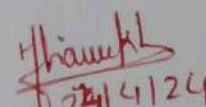



Department of Chemistry

CERTIFICATE

This is to certify the work incorporated in the project report entitled “Synthesis Characterization and Applications of Cobalt, Manganese and Nickel Nanoparticles” submitted by **Miss. Kharat Suhasini Yuvraj, Kale Priyanka Balu & Namdas Archana A.** for the award of the degree of Master of Science in Chemistry by Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati was carried out by the candidate under the supervision of **Prof. Deokate S.A.** Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati during April 2024.


PG Coordinator

Examined

22/4/24
Examiner


20/4/24
HOD
Department of Chemistry

Place: Baramati

Date:



**Anekant Education Society's,
Tuljaram Chaturchand College, Baramati 413102**

Affiliated to Savitribai Phule, Pune University, Pune

**Project Report on,
Synthesis, Characterization and Applications of ZnO, FeO and CuO
Nanoparticles by Chemical and Green Method.**

**Project report Submitted to,
DEPARTMENT OF CHEMISTRY,**

**As partial fulfilment of MSc degree,
2023-2024**

By,

Mr. Deokate Sahil Balasaheb

Ms. Khomane Siddhi Dattatray

Ms. Salunke Pranjal Avinash

Ms. Gaikwad Anjali Dipak

Under the guidance of

Prof. Deokate S. A.



ANEKANT EDUCATION SOCIETY'S
TULJARAM CHATURCHAND COLLEGE, BARAMATI
 413102
 DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that the work incorporated in the project report entitled "Synthesis, Characterization and Applications of ZnO, FeO and CuO Nanoparticles by Chemical and Green Method" submitted by **Deokate Sahil Balasaheb, Khomane Siddhi Dattatray, Salunke Pranjal Avinash, Gaikwad Anjali Dipak** for the partial fulfilment of project course PSCHO-246 for the degree of Master of Science in Organic Chemistry. The project was carried out in excellent/ satisfactorily manner under my supervision in Department Of Chemistry, Tuljaram Chaturchand College, Baramati.

Deokate
 20/04/24
Prof. Deokate S. A.
 (Project Guide)

Bondre
 20/4/24
 (Head Department Of Chemistry)

Examined

Pranjal
 23/4/24
External



A Project Report on

**“SYNTHESIS , CHARACTERIZATION AND BIOLOGICAL
ACTIVITY OF OXIMES DERIVED FROM ORGANIC
COMPOUNDS”**

Submitted To

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS ,COMMERCE AND
SCIENCE, BARAMATI- PUNE

As a partial fulfillment of the Degree Master of Science in Organic Chemistry

By

Miss. GAWATE DIVYA SUNIL (15995)

Miss. SHIRSAT SHRADDHA MARUTI (15987)

Mr. DADAS AKSHAY KALIDAS (15973)

Under The Guidance of

Miss.Prof.F.H.Shaikh.



CERTIFICATE

This is to certify that, **Ms.Gawate Divya Sunil ,Ms. Shirsat Shraddha Maruti, Mr.Dadas Akshay Kalidas** has successfully completed the project work on "Synthesis, Characterization and Biological activities of Oximes Derived from organic Compound" which being submitted here with as a partial fulfillment of the award of Degree, Master of Science in Organic Chemistry at TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE, AND SCIENCE BARAMATI ,PUNE.

All the information in this work is genuine to the best of my knowledge .

DATE: 20/ 4 /2024

Jhaunkl
20/4/24
Project Guide

Department of Chemistry

Bondne
20/4/24
Head of Department

Department of Chemistry

Examinee
Potelige
24/04/24
Examiner



A project report on

**“SYNTHESIS AND CHARACTERIZATION AND
BIOLOGICAL ACTIVITY OF HETEROCYCLIC
DERIVED FROM CHALCONE”**

Submitted to

Department of Chemistry

ANEKANT EDUCATION SOCIETY'S,

**TULJARAM CHATURCHAND COLLEGE OF
ARTS, COMMERCE AND SCIENCE, BARAMATI,
DIST-PUNE YEAR: 2023-24**

**AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE OF ORGANIC CHEMISTRY
SUBMITTED BY**

By

Mrs. ANGRE KALYANI BHARAT

Roll No- 15996

Under the guidance of

Prof. Shaikh F. H.

CERTIFICATE

This is to certify the work incorporated in the project report entitled "**Synthesis and characterization and biological activity of heterocyclic derived from chalcone**" submitted by **Ms. Angre kalyani bharat** for the award of the degree of Master of Science in Chemistry by Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati was carried out by the candidate under the supervision of **Prof. Shaikh F. H.** Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati during April 2024

Shaikh F. H.
20/4/24
Project guide

Examined
Wokale
24/04/24
Examiner

J. Bondre
20/4/24
HOD
Department of chemistry

A PROJECT REPORT ON
**Synthesis of sunscreen containing zinc oxide comparison
of sun protection factor**

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE
AND SCIENCE, BARAMATI.PUNE



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ORGANIC CHEMISTRY

By
Mr. KOLEKAR SUMIT PRASHANT(15953)
Mr. PISAL SURAJ NANA (15999)

UNDER THE GUIDANCE OF

Miss. Prof. F.H.Shaikh

DEPARTMENT OF CHEMISTRY

2023-24



Certificate

This is to certified that they work incorporated in the project, Pisal Suraj N , Kolekar Sumit P has successfully completed the project work on "Synthesis of sunscreen containing Zinc Oxide comparision of sun protection factor". Which is being submitted herewith as a partial fulfillment of the award of degree, master of science in Organic chemistry, Tuljaram Chaturchand College Of Arts, Commerce and Science, Baramati, Pune is the.

Result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in thisis reported has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 20/04/2024

Shaikh
20/4/24
Miss. Prof. F.H. Shaikh
Project Guide

Examined.

A. S. Khatke
24/04/24
EXTERNAL EXAMINER

Blondine
20/4/24.
Department of Chemistry
T.C. College, Baramati.



Department of Chemistry

Tuljaram Chaturchand College of Arts, Commerce and Science,

Baramati, Dist.-Pune

Year: 2023-24

Project Report

On

“Synthesis Characterization and Biological Activity of thiosemicarbazone”

Submitted by

Gadadare Sanikumar vilas

Roll No: 15983

Exam No:

Under the guidance of

Prof. Shaikh F. H.



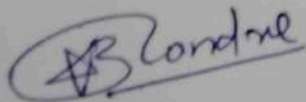
Department of Chemistry

Certificate

This is to certify the work incorporated in the project report entitled “**Synthesis Characterization and biological activity of thiosemicarbazone**” submitted by **Mr. Gadadare Sanikumar vilas** for the award of the degree of Master of Science in Chemistry by Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati was carried out by the candidate under the supervision of **Prof. Shaikh F. H.** Department of Chemistry, Tuljaram Chaturchand College of Arts, Commerce and Science, Baramati during April 2024.

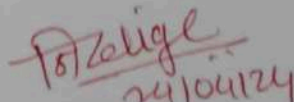
Place: Baramati

Date:-

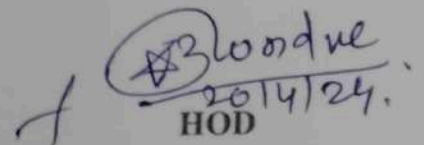


PG Coordinator

Examined



Examiner



Department of Chemistry



DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE

2023-24

A PROJECT REPORT ON

“PREPARATION OF MOSQUITO REPELLENT DHOOP FORM ORANGE
PEEL'S.”

SUBMITTED TO

TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE

AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ORGANIC CHEMISTRY

By

LAVATE TANUJA SUNIL (15991) UNDER THE GUIDANCE OF

Miss. Prof. F.H. Shaikh.



**TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE**

Certificate

This is to certify that, **Miss. LAVATE TANUJA SUNIL** has successfully completed the project work on **“PREPARATION OF MOSQUITO REPELLENT DHOOP FORM ORANGE PEELS”** Which is being submitted here with as a partial fulfilment of the award of degree, **Master of Science in Organic chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI.PUNE** is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE : / /

Examined.

Shaikh
20/4/24
Miss.Prof.F.H.Shaikh.
Project guide

Wakale
24/04/24
External
Examiner

f
B Kondwe
23/4/24
Head,
Dept.of chemistry
T.C.College, Baramati.

**A
PROJECT REPORT**

ON

**Synthesis and Characterization of a Coordination complexes of Ni
and Cu with Diphenylamine**

SUBMITTED

To

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND
COMMERCE, BARAMATI, PUNE**



**AS A PARTIAL FULFILLMENT OF THE DEGREE
BACHLOR OF SCIENCE IN
ORGANIC CHEMISTRY**

By

MS.BHAPKAR MAYURI A

MS. SINHA JYOTI

MR. DHUMAL VISHWAJEET ANIL

MR. THOMBARE RUSHIKESH ANNA

UNDER THE GUIDANCE OF

Dr. N. C. Dige

M.Sc. Ph.D.

DEPARTMENT OF CHEMISTRY

**TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE**

2023-24

**TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI, PUNE**



CERTIFICATE

This is to certify that, **Ms. bhapkar mayuri A. , Ms. sinha Jyoti, Mr. Dhumal vishwajeet anil, Mr. Thombare rushikesh anna** has successfully completed the project work on “**Synthesis and Characterization of a Coordination complexes of Ni and Cu with Diphenylamine**” which is being submitted herewith as a partial fulfillment for the award of degree, Bachelor of Science in Chemistry, Tuljaram Chaturchand College, Baramati is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE- 10 / 4 / 2023 - 2024

Dr. N. C. Dige
Project Guide,

Examiner

Head,
Dept. of Chemistry,

Head
DEPARTMENT OF CHEMISTRY
Tuljaram Chaturchand College
Baramati (Dist.Pune)



“METHOD DEVELOPMENT AND VALIDATION OF PARACETAMOL BY UV VISIBLE SPECTROSCOPY”

A Project Report Submitted to the

DEPARTMENT OF CHEMISTRY,
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
AND COMMERCE, BARAMATI, DIST- PUNE

In partial fulfilment of Degree of

Master of Science (Analytical Chemistry)

By

Mr. Patil Shubham Mohan

Roll No- 16193

Mr. More Rushank Yuvraj

Roll No- 16192

Under the Guidance of

Dr. Indulkar Yogesh Nana

YEAR 2023-24



DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certified that the work incorporated in the project report entitled “ **METHOD DEVELOPMENT AND VALIDATION OF PARACETAMOL BY UV VISIBLE SPECTROSCOPY**” Submitted by **Mr. Patil Shubham Mohan and Mr. More Rushank Yuvraj** for the partial fulfilment of project course **PSCHA-246** for the degree of master of science in **Analytical chemistry** by Department of Chemistry, Tuljaram Chaturchand College, Baramati was carried out by the candidate under the supervision of Dr. Indulkar Yogesh Nana Department of Chemistry, Tuljaram Chaturchand College ,Baramati during for academic year 2023-24.

Dr. Y.N.Indulkar
Project Guide

Dr. R.S.Bhondwe
PG
Coordinator

Head,
Department of Chemistry

Place: Baramati

Date: 23/04/2024

23/04/24
Examiner

Examined

"ANEKANT EDUCATION SOCIETY"
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE & COMMERCE,
BARAMATI-413102
(Autonomous)



A PROJECT REPORT ON
"COMPARATIVE STUDY OF THE GREEN & CHEMICALLY SYNTHESIED ZnO
NANOPARTICALS FOR ANTIBACTERIAL ACTIVITY"

SUBMITTED TO
DEPARTMENT OF CHEMISTRY
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND COMMERCE
BARAMATI

By

Name	Roll No.
Ms. Chavan Jyoti Bhaskar	16225
Mr. Gaikwad Vivek Hanmant	16210
Mr. Ghule Sushant Damodar	16207
Mr. Gaikwad Vishal Shamrao	16204
Mr. Magdum Darshan Dhananjay	16201

UNDER THE GUIDENCE OF

Asst. Prof. H. J. Salunkhe

2023-2024

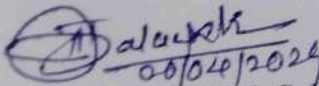
“ANEKANT EDUCATION SOCIETY”

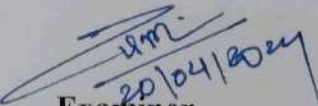
**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE
& COMMERCE, BARAMATI-413102**
(Autonomous)

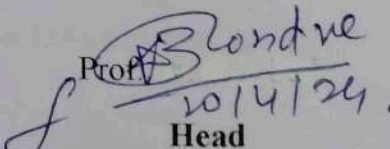


CERTIFICATE

This is to certify that Ms. Chavan Jyoti Bhaskar, Mr. Gaikwad Vivek Hanmant, Mr. Ghule Sushant Damodar, Mr. Gaikwad Vishal Shamrao and Mr. Magdum Darshan Dhananjay, regular students of class M.Sc.-II (Chemistry) has completed project on “Comparative Study Of Green & Chemically Synthesized ZnO NPs For Anti-bacterial Activity” in the partial fulfilment of the program in M.Sc. II as per the syllabus laid by Tuljaram Chaturchand College of Arts, Science and Commerce Baramati, during the academic year 2023-2024 conducted under my supervision.


Asst. Prof. H. J. Salunkhe
Project Guide


Examiner


Prof. B. D. Bhandare
Head

Department of Chemistry

PLACE: BARAMATI

DATE 20/04/2024

A PROJECT REPORT ON
COMPARATIVE ASSESSMENT OF GREEN AND CHEMICALLY SYNTHESIZED
EDTA CAPPED SILVER NANOPARTICLES FOR ANTIOXIDANT ACTIVITY
SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI PUNE.



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY

By

Nikam Prapti Yuvraj (16222)

Jagdale Pooja Pandharinath (16213)

Chougule Dhiraj Dadaso (16195)

Thorat Abhishek Vijay (16198)

UNDER THE GUIDANCE OF

Prof. Salunkhe H.J.

DEPARTMENT OF CHEMISTRY
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND
SCIENCE, BARAMATI.PUNE

2023-24

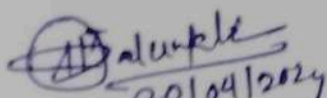
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE
AND SCIENCE, BARAMATI.PUNE



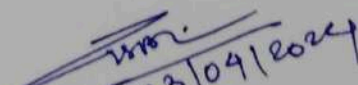
Certificate

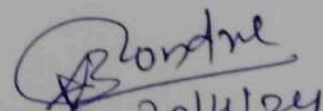
This is to certify that, **Miss. Nikam P. Y., Miss. Jagdale P.P., Mr. Chogule D.D., Mr. Thorat A.V.** has successfully completed the project work on "*comparative study of Green and chemically synthesized EDTA capped silver nanoparticles for antioxidant activity*". Which is being submitted herewith as a partial fulfilment of the award of degree, master of science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI, PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any Other University or examining body.

DATE: 20/04/2024


20/04/2024
Project Guide,

Prof. H. J. Salunkhe


23/04/2024
Examiner


20/4/24
Head,

Mr. Prof.

Department of Chemistry,

T. C. College, Baramati.

A PROJECT REPORT ON

**Biosynthesis of Copper oxide and Iron oxide
Nanoparticles using Neem (Azadirachta indica) Leaf
Extract**

SUBMITTED TO

TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI PUNE.



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY

By

Bhoite Vishal Mahendra

Dombale Sneha Bapurao

Narute Vijay Dnyandev

Digge Samruddhi Gururaj

Ranaware Shweta Pramod

UNDER THE GUIDANCE OF

Miss. Prof. A.N. Bhong

DEPARTMENT OF CHEMISTRY

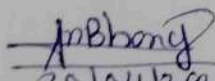
2023-24



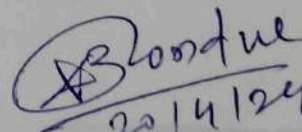
Certificate

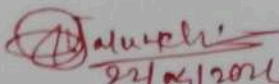
This is to certified that they work incorporated in the project, **Mr. Bhoite V., Ms. Dombale S., Mr. Narute V., Ms. Digge S., Ms. RanawareS.**, has successfully completed the project work on “**Biosynthesis of Copper oxide and Iron oxide Nanoparticles using Neem (Azadirachta indica) Leaf Extract**”. Which is being submitted here with as a partial fulfillment of the award of degree, master of science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI, PUNE is the result of project work completed under my supervision and belief the work embodied in this is reported has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 29/04/2024


20/04/2024
Miss. Prof. A.N. Bhong.

Project Guide


20/4/24.
Head, Department of Chemistry
T.C. College, Baramati.


22/04/2024
EXTERNAL EXAMINER



A PROJECT REPORT ON
"EXTRACTION OF CURCUMIN FROM TURMERIC ROOT BY USING
SOLVENT EXTRACTION METHOD"

SUBMITTED TO
TULJARAM CHARTURCHAND COLLEGE, BARAMATI
DIST - PUNE.

As Partial Fulfilment of M.Sc. Degree
2023 - 2024

SUBMITTED BY

BHISE VIJAY KRUSHNA (16208)
KHATAL SANKET TANAJI (16202)
PATIL RUSHIKESH ANNASAHEB (16211)
DEVKATE RAHUL KALYAN (16205)

UNDER THE GUIDANCE OF

Prof. A. N. BHONG

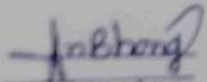


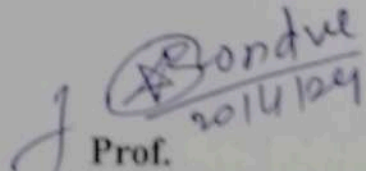
Certificate

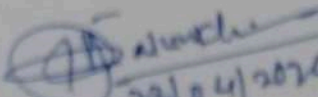
This is to certified that they work incorporated in the project Bhise Vijay Krushna, Khatal Sanket Tanaji, Patil Rushikesh Annasaheb, Devkate Rahul Kalyan has successfully completed the project work on "Extraction Of Curcumin From Turmeric Root By Using Solvent Extraction Method "Which is being submitted here with as a partial fulfillment of the award of degree, master of science in Analytical chemistry, Tuljaram Chaturchand College Of Arts, Commerce And Science, Baramati, Pune

Result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this reported has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE:


20/04/2024
Prof. A. N. BHONG
Project Guide


20/04/2024
Prof.
Head deapartment of chemistry
T. C. College Baramati.


22/04/2024
EXAMINOR

A PROJECT REPORT ON
Synthesis and characterization of Nickel Oxide, Copper Oxide, Cobalt
Oxide, and Zinc Oxide Nanoparticles.

SUBMITTED TO
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE
AND SCIENCE, BARAMATI PUNE.



AS A PARTIAL FULFILMENT OF THE DEGREE
MASTER OF SCIENCE IN ANALYTICAL CHEMISTRY

By

Thorat Trupti Tarachand (16197)

Solankar Priyanka Vijay (16221)

Patane Pratiksha Appaso (16212)

Sawant Apeksha Kailas (16209)

Talekar Prathamesh Anil (16200)

UNDER THE GUIDANCE OF

Miss. Prof. G. S. Bhunje

DEPARTMENT OF CHEMISTRY

TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE
AND SCIENCE, BARAMATI.PUNE

2023-24

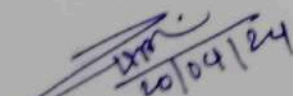
TULJARAM CHATURCHAND COLLEGE OF ARTS,
COMMERCE AND SCIENCE, BARAMATI.PUNE



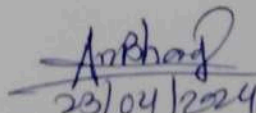
Certificate

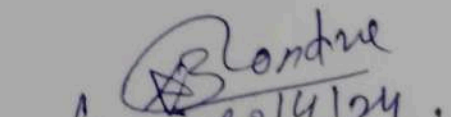
This is to certify that, Miss. Thorat T.T., Miss. Solankar P.V., Miss. Patane P.A., Miss. Sawant A.K., Mr. Talekar P.A. has successfully completed the project work on "Synthesis and characterization of Nickel Oxide, Copper Oxide, Cobalt Oxide and Zinc Oxide Nanoparticles". Which is being submitted herewith as a partial fulfillment of the award of degree, master of science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI, PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this report has not formed earlier for any degree of similar title of this or any Other University or examining body.

DATE:


20/04/24
Project Guide,

Miss. Prof. G. S. Bhunje


20/04/2024
Examiner


20/04/24
Head,

Department of Chemistry,

T. C. College, Baramati.



Anekant Education Society

**Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati
(Autonomous)**

413102

A Project Report on

**Phytochemical screening by FTIR,AAS,UV-Visible Spectroscopy analysis of
Seed, Root, Stem & Leaf Extract of Argemone Mexicana plant.**

Submitted to

Department of Chemistry

**Tuljaram Chaturchand college of Arts, Science and Commerce, Baramati
(Autonomous)**

By

Name	Roll No
Ms. Shingade Pratiksha Dhanaji	16206
Ms. Deokate Sakshi Chhagan	16224
Mr. Pawar Vaibhav Dnyaneshwar	16194
Mr. Nevase Rushikesh Somnath	16203

Under the Guidance of

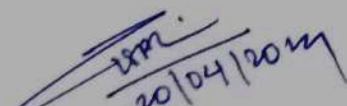
Asst. Prof: G.S.Bhunje

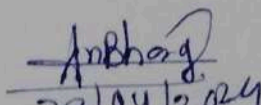



CERTIFICATE

This is to certify that partial fulfillment of curriculum MSc-II Students **Ms. Shingade Pratiksha Dhanaji, Ms. Deokate Sakshi Chhagan, Mr. Pawar Vaibhav Dnyaneshwar & Mr. Nevase Rushikesh Somnath.** Have successfully completed the project work in the Chemistry entitled **“Phytochemical screening by FTIR, AAS, UV-Visible Spectroscopy analysis of Leaf, Stem, Seed & Root extract of Argemone Mexicana plants”** prescribed by Tuljaram Chaturchand Collage of Arts, Science and Commerce Baramati during academic year 2023-2024.

This is a record of Bonafede work carried out by them under my supervision and guidance.


Asst. Prof. G.S. Bhunje.
Project Guide


23/04/2024
Examiner


20/4/24.
Head
Department of Chemistry

Place: Baramati

Date: 20/04/2024