RESEARCH PROJECT DEPARTMENT OF CHEMISTRY J.D.M.V.P.Co-Op SAMAJ's SHRI S.S.PATIL ARTS, SHRI.BHAUSAHEB T.T.SALUNKHE COMMERCE AND SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON NAAC ACREDITED "B+" GRADE



Entitled

"Synthesis and Characterization of Conjugated Porous Polymers and Their Composites Having Potential Applicability SUBMITTED TO

K.B.C.NORTH MAHARASHTRA UNIVERSITY,

JALGAON SUBMITTED BY

Ms. Swati Rajendra Wagh

Ms. Sujata Jivan Patil

Ms. Uma Sunil Patil

Ms. Deepawali Bhimrao Gokhle

Ms. Chetna Pralhad Patil

UNDER THE GUIDENCE OF

Dr.Mrs.M.S.Patil

NUTAN MARATHA COLLEGE JALGAON (2022-23)

DEPARTMENT OF CHEMISTRY

J.D.M.V.P.Co-Op SAMAJ'S SHRI S.S.PATIL ARTS, SHRI.BHAUSAHEB T.T.SALUNKHE COMMERCE AND SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON NAAC ACREDITED "B+" GRADE



-: CERTIFICATE:-

This is certifying that project on Entitled
Synthesis and Characterization of Conjugated Porous
Polymers and Their Composites Having Potential
Applicability

Has been submitted by
In the partial fulfilment and requirement for the award of the
degree of

MASTER OF SCIENCE (Organic Chemistry) under the K.B.C. North Maharashtra University, Jalgaon is carried out under our supervisor and guidance.

Dr.Mr.M.SfMote Project In Charge Dr.Mrs.MVS.Patil

Head of Department of Chemistry

Chemistry Days.

Selmine Con. and Shir G. B. PanellChemistry Curior (Alexander)

3

P.G. DEPARTMENT OF CHEMISTRY
NAAC Accredited 'B+' Grade
J.D.M.V.P.Co-Op SAMAJ's SHRI S.S.PATIL ARTS,
SHRI.BHAUSAHEB T.T.SALUNKHE COMMERCE AND
SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON

-: DECLARATION:-

We hereby declare that the MSC Research Project entitled, Synthesis and Characterization of Conjugated Porous Polymers and Their Composites Having Potential

Applicability has been complete and written by us under

the supervisor of

Dr.M.S. Patil Present work done not copied from any other project report submitted to university or examining body.

DATE: PLACE:

NAME: Miss. Sujata Jivan Patil Miss. Uma Sunil Patil Miss. Swati Rajendra Wagh Miss. Dipawali Bhimrav Gokhale

A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY J.D.M.V.P'S Co-op SAMAJ'S SHRI.S.S. PATIL ARTS, SHRI. BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



ENTITLED

"PHYTOCHEMICAL SCREENING OF TRACHYSPERMUM AMMI PLANT AND SYNTHESIS OF SIVER NANOPARTICLES"

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY,

JALGAON

SUBMITTED BY

Ms. SAMRUDDHI ANIL DESHPANDE

Ms. KARANKAL ROHINI DHYANESHWAR

Ms. PATIL MRUNAL SUNIL

Ms. PATIL POONAM LOTAN

Ms. JAIN PALLAVI PRAKASH

UNDER THE GUIDENCE

Dr.Mrs.M.S.PATIL NUTAN MARATHA COLLEGE, JALGAON (2022-2023)

NUTAN MARATHA COLLEGE, JALGAON (2021-2022) DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co-op SAMAJ'S SHRI.S.S. PATIL ARTS, SHRI. BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"PHYTOCHEMICAL SCREENING OF TRACHYSPERMUM AMMI PLANT AND SYNTHESIS OF SIVER NANOPARTICLES"

HAS BEEN SUBMITTED BY

Ms. SAMRUDDHI ANIL DESHPANDE

Ms. KARANKAL ROHINI DHYANESHWAR

Ms. PATIL MRUNAL SUNIL

Ms. PATIL POONAM LOTAN

Ms. JAIN PALLAVI PRAKASH

In the partial fulfilment and requirement for the award of the degree of MASTER OF SCIENCE (Organic chemistry)under the K.B.C NORTH MAHARASHTRA UNIVERSITY, JALGAON carried out under the supervision and guidance.

Dr.Mrs. M.S.Patil

Project in charge

Dr. Mrs. M.S.PATIL

Head of devantment

Beris. S. Patil Arts Shri Banconood F. Spinothin Com. and Shir G. R. Pandle Scipner College, Injuner

NUTAN MARATHA COLLEGE 2022-

P.G.DEPARTMENT OF CHEMISTRY

NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co-op SAMAJ'S SHRI.S.S. PATIL ARTS,

SHRI. BHAUSAHEB T.T. SALUNKHE COMMERCE AND

SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We hereby declare that the M.SC. research project entitled "PHYTOCHEMICAL SCREENING OF TRACHYSPERMUM AMMI PLANT AND SYNTHESIS OF SIVER NANOPARTICLES" has completed and written by us under the supervision of Dr. M.S.patil the present work is not been copied from any other project report submitted to university or examining body

DATE:-

PLACE:-JALGAON

NAME:- Ms. SAMRUDDHI ANIL DESHPANDE

Ms. KARANKAL ROHINI DHYANESHWAR

Ms. PATIL MRUNAL SUNIL

Ms. PATIL POONAM LOTAN

Ms. JAIN PALLAVI PRAKASH



A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED"B+" GRADE



ENTITLED

"Synthesis of Azo compounds by coupling of Substituted diazonium salt with 2-Chlorophenol"

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY.

JALGAON

SUBMITTED BY

Mr. PATIL SATISH ANANDA

Mr. PATIL SAURABH SANJAY

UNDER THE GUIDENCE

Dr.Mrs.M.S.PATIL

NUTAN MARATHA COLLEGE, JALGAON (2022-2023)



DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"Synthesis of Azo compounds by coupling of Substituted diazonium salt with 2-Chloro phenol"

HAS BEEN SUBMITTED BY

Mr. PATIL SATISH ANANDA Mr. PATIL SAURABH SANJAY

In the partial fulfilment and requirement for the award of the degree of

MASTER OF SCIENCE (Organic chemistry) under the K.B.C NORTH MAHARASHTRA UNVIERSITY. JALGAON carried out under the supervision and guidance.

Project in charge

drs. M.S.Patil

Head of Department

READ OF THE Chemistry Dept.

parl S. S. Parll Ares Shel Bhausahet f. 1

Salurkhe Com. and Shir G. R. Pands

Science College Taleson



PG DEPARTMENT OF CHEMISTRY

NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co.op SAMAJ'S SHRI.S.S. PATIL ARTS ,

SHRI. BHAUSAHEB T.T. SALUNKHE COMMERCE AND

SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We here by declare that the M.SC. research project entitled "Green synthesis of silver nanoparticles and their phytochemical analysis from natural products. "has completed and written by us under the supervision of Dr. M.S.patil the present work is not been copied from any other project report submitted to university or examining body

DATE :-

PLACE :- JALGAON

NAME :-Mr. PATIL SATISH ANANDA Mr. PATIL SAURABH SANJAY

(4)

A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE.

JALGAON-425001

NAAC ACREDITED"B+" GRADE



ENTITLED

"Synthesis and Characterisation of Organic Fertilizer using Natural organic material".

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY,

JALGAON

SUBMITTED BY

Mr. HATKAR KISHOR WALMIK

Mr. BHOI GOPAL JAGANNATH

Mr. GIRASE ANAND RAJENDRASING

Mr. CHAUDHARI RAHUL KISHOR

Mr. CHAUDHARI ROHIT ANIL

UNDER THE GUIDENCE

Dr.Mrs.M.S.PATIL

NUTAN MARATHA COLLEGE, JALGAON (2022-2023)

DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRI, BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHRI.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"Synthesis and Characterisation of Organic Fertilizer using Natural organic material". HAS BEEN SUBMITTED BY

> Mr. HATKAR KISHOR WALMIK Mr. BHOI GOPAL JAGANNATH Mr. GIRASE ANAND RAJENDRASING Mr. CHAUDHARI RAHUL KISHOR Mr. CHAUDHARI ROHIT ANIL

in the partial fulfilment and requirement for the award of the degree of

MASTER OF SCIENCE (Organic chemistry) under the K.B.C NORTH MAHARASHTRA UNVIERSITY , JALGAON earried out under the supervision and guidance

Project in charge

Head of Department Chemistry Dept.

Bri S. S. Patil Acta Shri Bhausobeb & aluniths Com. and Shir G. R. Pandle Science College, Jaleage

PG DEPARTMENT OF CHEMISTRY

NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS,
SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND
SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We here by declare that the M.SC, research project entitled
"Synthesis and Characterisation of Organic Fertilizer using Natural
organic material", "has completed and written by us under the
supervision of Dr. M.S.patil the present work is not been copied from
any other project report submitted to university or examining body

DATE:-30/05/2023

PLACE :- JALGAON

NAME :-

Mr. HATKAR KISHOR WALMIK
Mr. BHOI GOPAL JAGANNATH
Mr. GIRASE ANAND RAJENDRASIG
Mr. CHAUDHARI RAHUL KISHOR
Mr. CHAUDHARI ROHIT ANIL



DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHRI.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"Green synthesis of silver nanoparticles and their phytochemical analysis from natural products" HAS BEEN SUBMITTED BY

> Mr. MAHAJAN OJAS RAJKUMAR Mr. PATIL KUNAL ANIL Mr. PATIL DIPAK BALU

Mr. MOHASIN AHAMAD ABDUL QADIM MANYAR Mr. KHAIRKAR GIRISH GOVINDA

In the partial fulfilment and requirement for the award of the degree of

MASTER OF SCIENCE (Organic chemistry) under the K.B.C NORTH MAHARASHTRA UNIVERSITY. JALGAON carried out under the supervision and guidance

Project in charge

Head of Department

MEAD OF THE Chemistry Dept.

peri 5. 5. Patil Arts Shri Bhausabeb T. 1

Saluniche Coos, and Shir G. R. Pandis

NUTAN MARATHA COLLEGE JALGAON 2022-23



A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRI, BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED"B+" GRADE



ENTITLED

"Green synthesis of silver nanoparticles and their phytochemical analysis from natural products."

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY,

JALGAON

SUBMITTED BY

Mr. MAHAJAN OJAS RAJKUMAR

Mr. PATIL KUNAL ANIL

Mr. PATIL DIPAK BALU

Mr. MOHASIN AHAMAD ABDUL QADIM MANYAR

Mr. KHAIRKAR GIRISH GOVINDA

UNDER THE GUIDENCE

Dr.Mrs.M.S.PATIL

NUTAN MARATHA COLLEGE, JALGAON (2022-2023)

(3)

PG DEPARTMENT OF CHEMISTRY

NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS.

SHRI, BHAUSAHEB T.T. SALUNKHE COMMERCE AND

SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We here by declare that the M.SC. research project entitled "Green synthesis of silver nanoparticles and their phytochemical analysis from natural products. "has completed and written by us under the supervision of Dr. M.S.patil the present work is not been copied from any other project report submitted to university or examining body

DATE :-

PLACE :- JALGAON

NAME :-

Mr. MAHAJAN OJAS RAJKUMAR

Mr. PATIL KUNAL ANIL

Mr. PATIL DIPAK BALU

Mr. KHAIRKAR GIRISH GOVINDA

Mr. MOHASIN AHAMAD ABDUL

QADIM MANYAR.

A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY

J.D.M.V.P'SCo.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED"B+" GRADE



ENTITLED

"Phytochemical analysis of some medicinal plant by using different solvent."

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY,

JALGAON

SUBMITTED BY

Mr. WAGH KIRAN SHANTILAL

Mr. BAVISKAR VIKAS RAJENDRA

Mrs. PAWAR PRAPTI PRASHANT

Mrs. THORAT ASHWINI HIRALAL

Mr. GIRASE AKASH INDRASING

Mr. PATIL SACHIN KAILAS

UNDER THE GUIDENCE

Dr.Mrs.M.S.PATIL

NUTAN MARATHA COLLEGE, JALGAON (2022-2023)

DEPARTMENT OF CHEMISTRY

J.D.M.V.P'SCo.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL BHAUSAHEB T.T. SALUNKHE COMMERCE AND SHRLG.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"Phytochemical analysis of some medicinal plant by using different

solvent"

HAS BEEN SUBMITTED BY

Mr. WAGH KIRAN SHANTILAL

Mr. BAVISKAR VIKAS RAJENDRA

Mrs. PAWAR PRAPTI PRASHANT

Mrs. THORAT ASHWINI HIRALAL

Mr. GIRASE AKASH INDRASING

Mr. PATIL SACHIN KAILAS

In the partial fulfilment and requirement for the award of the degree of

MASTER OF SCIENCE (Organic chemistry)under the K.B.C NORTH MAHARASHTRA UNIVERSITY , JALGAON carried out under the supervision and guidance.

Dr.Mrs. M.S.Patil

Project in charge

Dr.Mrs.M.S.Patil

Head of Department

Saluniche Com. and Shir G. R. Pandle

Science College, Jalgane

PG DEPARTMENT OF CHEMISTRY

NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS ,

SHRI, BHAUSAHEB T.T. SALUNKHE COMMERCE AND

SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We here by declare that the M.SC. Research project entitled "Phytochemical analysis of some medicinal plant by using different solvent."has completed and written by us under the supervision of Dr.M.S.patil the present work is not been copied from any other project report submitted to university or examining body

DATE :- 06/06/2023

PLACE :- JALGAON

NAME :-

Mr.WAGH KIRAN SHANTILAL

Mr.BAVISKAR VIKAS RAJENDRA

Mrs.PAWAR PRAPTI PRASHANT P. P. Pawar

Mrs.THORAT ASHWINI HIRALAL

Mr.GIRASE AKASH INDRASING Girase

Mr. PATIL SACHIN KAILAS

A SHORT RESEARCH PROJECT DEPARTMENT OF CHEMISTRY
J.D.M.V.P'S Co.op SAMAJ'S SHRI.S.S. PATIL ARTS, SHRI.
BHAUSAHEB T.T.SALUNKHE COMMERCE AND SHIR.G.R.PANDIT
SCIENCE COLLEGE, JALGAON-425001
NAAC ACREDITED"B+" GRADE



ENTITLED

"Green Synthesis of Aspirin and its Comparative Study with

Traditional Methods."

SUBMITTED TO

K.B.C. NORTH MAHARASTRA UNIVERSITY.

JALGAON SUBMITTED BY

Mr. SURYAWANSHI LALIT SANJAY
Mr. PATIL RAHUL DILIP
Mr. PAWAR VIKAS SUKDEO
Mr. PATIL VIVEK RAMRAO
Mr. PATIL SANJOG RAJENDRA
Mr. PAWAR MAYUR MUKUNDA
Mr. SHINDE RUSHIKESH DIWAKAR

UNDER THE GUIDENCE Dr.Mrs.M.S.PATIL

NUTAN MARATHA COLLEGE, JALGAON (2022-2023)

(+12)

DEPARTMENT OF CHEMISTRY

J.D.M.V.P'S Co.op SAMAJ'S SHRLS.S. PATIL ARTS, SHRL
BHAUSAHEB T.T.SALUNKHE COMMERCE AND SHIR.G.R.PANDIT
SCIENCE COLLEGE, JALGAON-425001
NAAC ACREDITED "B+" GRADE



CERTIFICATE

This is certifying that the project on entitled

"Green Synthesis of Aspirin and its Comparative Study with Traditional Methods"

HAS BEEN SUBMITTED BY

Mr. SURYAWANSHI LALIT SANJAY
Mr. PATIL RAHUL DILIP
Mr. PAWAR VIKAS SUKDEO
Mr. PATIL VIVEK RAMRAO
Mr. PATIL SANJOG RAJENDRA
Mr. PAWAR MAYUR MUKUNDA
Mr. SHINDE RUSHIKESH DIWAKAR

In the partial fulfilment and requirement for the award of the degree of

MASTER OF SCIENCE (Organic chemistry) under the K.B.C NORTH MAHARASHTRA UNVIERSITY JALGAON carried out under the supervision and guidance.

Dr.Mrs. M.S.Patil

Project in charge

Dr. Mrs. M.S. Patil

Head of Department

NUTAN MARATHA COLLAGE JALGOAN

P.G.DEPARTMENT OF CHEMISTRY
NAAC ACREDITED "B+" GRADE

J.D.M.V.P'S Co.op SAMAJ'S SHRI.S.S. PATIL ARTS,
SHRI. BHAUSAHEB T.T. SALUNKHE COMMERCE AND

SHIR.G.R.PANDIT SCIENCE COLLEGE,

JALGAON-425001

DECLARATION

We here by declare that the M.SC. research project entitled "Green Synthesis of Aspirin and its Comparative Study with Traditional Methods" has completed and written by us under the supervision of Dr. M.S.patil the present work is not been copied from any other project report sumitted to unviersity or examining body

DATE

PLACE:- JALGAON

NAME :-

Mr. SURYAWANSHI LALIT SANJAY

Mr. PATIL RAHUL DILIP

Mr. PAWAR VIKAS SUKDEO

Mr. PATIL VIVEK RAMRAO

Mr. PATIL SANJOG RAJENDRA

Mr. PAWAR MAYUR MUKUNDA

Mr. SHINDE RUSHIKESH DIWAKAR

A Dissertation on

HYDROPONICS : AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T.
T. SAALUNKHE COMMERCE AND SHRI I. G. R. PANDIT SCIENCE
COLLEGE.

NUTAN MARTHA COLLEGE, JALGAON

In Partial Fulfillment of M. SC. in Botany

Submitted by

Aachal Vishwanath Kadam

M. Sc. (Botany) II nd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI, S. S. PATIL ART'S, SHRI, BHAUSAHEB T. T. SAALUNKHE COMMERCE AND SHRI, G. R. PANDIT SCIENCES COLLEGE, (NUTAN MARATHA COLLEGE), JALGAON.

2023

CERTIFICATE

This is certify that the dissertation work entitled HYDROPONIC :AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING is the original work carried out by Aachal Vishwanath Kadam under the supervision of prof. Dr. L. P. Deshmukh for partial fulfillment of M. Sc. (Botany) during the academic year 2022-24 at Nutan Maratha collage, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on.....

Miss - Kiran f. Patil Project Supervisor

Prof. Dr. L. P. Deshmukh

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha Collage, Jalgaon.

External Examiner

DECLARATION

I confirm that the project work titled HYDROPONICS: AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING being submitted in partial fulfillment for the M. SC. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Aachal Vishwanath Kadam

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany NUTAN MARATHA COLLEGE, JALGAON.

ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha Collage, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Mrs. Nafisa tadvi madam, Ms. Kiran patil madam For their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our collogues for their cooperation in ever ways possible. last but not the least ;we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Aachal Vishwanath Kadam

A Dissertation on

Floral diversity of family Asteraceae from Manudevi forest, Jalgaon district, Maharashtra.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

COLLEGE

NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Aditi Kailas Patil

M.Sc. (Botany) IInd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

CERTIFICATE

This is to certify that the dissertation work entitled "Floral diversity of family Asteraceae from Manudevi forest, Jalgaon district, Mahrashtra" is the original work carried out by Aditi Kailas Patil, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on.....

Miss - Kiran P. Patil

Project Supervisor

Prof. Dr. L. P. Deshmukh

External Examiner

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha College, Jalgaon

DECLARATION

I confirm that the project work titled "Study of floral diversity of Asteraceae family from Manudevi forest, Jalgaon district, Maharashtra " being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Alutu_ Aditi Kailas Patil

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude

to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head,

Department of Botany, Nutan Maratha College, Jalgaon. We are indeed

indebted to him for his expert guidance constructive criticism, through

discussion and continuous inspiration through out of the course and

especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa

Tadavi Madam, Prof. Kiran Patil madam for their help during work.

Besides we are also greatly indebted to non-teaching staff members,

research scholars and our collogues for their cooperation in every ways

possible. Last but not the least; we are heartily thankful to our parents and

friends for their inspiration through the course.

Thanking all.

Aditi Kailas Patil

A Dissertation on

Study of floral diversity of family Asteraceae from Manudevi forest, Jalgaon district

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

COLLEGE

NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Chandralekha Chandrakant Pawar

M.Sc. (Botany) IInd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

2023

CERTIFICATE

This is to certify that the dissertation work entitled "Study of floral diversity of family Asteraceae from Manudevi forest, Jalgaon district" is the original work carried out by Chandralekha Chandrakant Pawar, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on......

Project Supervisor

Prof. Dr. L. P. Deshmukh

External Examiner

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha College, Jalgaon

DECLARATION

I confirm that the project work titled "Study of floral diversity of family Asteraceae from Manudevi forest, Jalgaon district" being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Chandralekha Chandrakant Pawar

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON

ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha College, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa Tadavi Madam, Prof. Kiran Patil madam for their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our colleagues for their cooperation in every ways possible. Last but not the least; we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Chandralekha Chandrakant Pawar

A Dissertation on

HYDROPONICS: AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SAALUNKHE COMMERCE AND SHRI I. G. R. PANDIT SCIENCE COLLEGE.

NUTAN MARTHA COLLEGE, JALGAON

In Partial Fulfillment of M. SC. in Botany

Submitted by

Kalyani Nandakishor Patil

M. Sc. (Botany) II nd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI. S. S. PATIL ART'S, SHRI. BHAUSAHEB T.
T. SAALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCES
COLLEGE, (NUTAN MARATHA COLLEGE), JALGAON.

2023

CERTIFICATE

This is certify that the dissertation work entitled HYDROPONIC: AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING is the original work carried out by Kalyani Nandakishor Patil, under the supervision of prof. Dr. L. P. Deshmukh for partial fulfillment of M. Sc. (Botany) during the academic year 2022-24 at Nutan Maratha collage, North Maharashtra University, Jalgaon, MS, India.

Submitted	for the	project	viva-voce	examination	held
on					

Project Supervisor

Prof. Dr. L. P. Deshmukh
Principal,
Reader and Head,
Department of Botany,
Nutan Maratha Collage, Jalgaon.

External Examiner

DECLARATION

I confirm that the project work titled HYDROPONICS: AN UPCOMING AND INNOVATIVE WAY OF FUTURE FARMING being submitted in partial fulfillment for the M. SC. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Kalyani Nandakishor Patil

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany NUTAN MARATHA COLLEGE, JALGAON.

ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to **Prof. Dr. L. P. Deshmukh**, Principal and Head, Department of Botany, Nutan Maratha Collage, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful **to Mrs. Nafisa tadvi madam**, **Ms.Kiran patil madam** For their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our collogues for their cooperation in ever ways possible. last but not the least ;we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Kalyani Nandakishor Patil

A Dissertation on

Floristic study of Family Euphorbiaceae from Manudevi Forest, Jalgaon district.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

COLLEGE

NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Sana Kausar Qurban Khan Tadvi

M.Sc. (Botany) IInd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

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COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

2023

This is certify that the dissertation work entitled "Floristic study of family Euphorbiaceae from Manudevi Forest, Jalgaon district" is the original work carried out by Sana Kausar Qurban Khan Tadvi, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on......

Miss-Kiran P. Patil
Project Supervisor

Prof. Dr. L. P. Deshmukh

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha College, Jalgaon

External Examiner

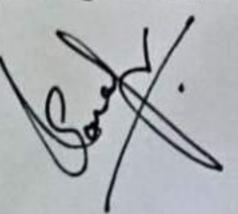
ACKNOWLEDGEMENT

It is an honor and heartfelt_pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha College, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa Tadavi Madam, Prof. Kiran Patil madam for their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our collogues for their cooperation in every ways possible. Last but not the least; we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Sana Kausar Qurban Khan Tadvi



A Dissertation on

Floral Diversity of Family Convolvulaceae from Manudevi Forest, Jalgaon.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

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NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Shaikh Uzma Tahesin Mohammed Azim

M.Sc. (Botany) IIod Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRL G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

This is certify that the dissertation work entitled "Floral diversity of Family Convolvulaceae from Manudevi Forest, Jalgaon" is the original work carried out by Shaikh Uzma Tahesin Mohammed Azim, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on......

Miss-Kisan P. patil

Prof. Dr. L. P. Deshmukh

Principal.

Reader and Head,

Department of Botany.

Nutan Maratha College, Jalgaon

External Examiner

DECLARATION

I confirm that the project work titled "Floral diversity of Family Convolvulaceae from Manudevi Forest, Jalgaon" being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Shaikh Uzma Tahesin Mohammed Azim

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON

ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha College, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa Tadavi Madam, Prof. Kiran Patil Madam for their help during work.

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Thanking all.

Shaikh Uzma Tahesin Mohammed Azim

A Dissertation on

Floral diversity of family Acanthaceae from Manudevi forest.

Jalgaon district.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

COLLEGE

NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Shifa Khan Zakir Khan

M.Sc. (Botany) IInd Year

Supervised By

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Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

This is to certify that the dissertation work entitled "Floral diversity of Acanthaceae family from Manudevi forest, Jalgaon district" is the original work carried out by Shifa Khan Zakir Khan, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on......

Miss-Kiron P. Pati Project Supervisor

Prof. Dr. L. P. Deshmukh

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha College, Jalgaon

External Examiner

DECLARATION

I confirm that the project work titled "Floral diversity of Acanthaceae family from Manudevi forest, Jalgaon district" being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Shifa Khan Zakir Khan

I certify that the declaration made above by the candidate above.

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON

ACKNOWLEDGEMENT

It is an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha College, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa Tadavi Madam, Prof. Kiran Patil madam for their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our colleagues for their cooperation in every ways possible. Last but not the least; we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Shifa Khan Zakir Khan



Study of floral diversity of Fabaceae family from Manudevi forest.

Jalgaon district.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

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NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Snehal Ganesh Ranit

M.Sc. (Botany) IInd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

2023

CERTIFICATE This is certify that the dissertation work entitled "Study of floral diversity of Fabaceae family from Manudevi forest, Jalgaon distric" is the original work carried out by Snehal Ganesh Ranit, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India. Submitted for the project viva-voce examination held on...... Project Supervisor External Examiner Prof. Dr. L. P. Deshmukh Principal, Reader and Head. Department of Botany, Nutan Maratha College, Jalgaon

DECLARATION I confirm that the project work titled "Study of floral diversity of Fabaceae family from Manudevi forest, Jalgaon district " being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university. Snehal Ganesh Ranit I certify that the declaration made above by the candidate above. Prof. Dr. L. P. Deshmukh Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON

ACKNOWLEDGEMENT

It_is_an honor and heartfelt pleasure to express sincere gratitude to our project supervisor to Prof. Dr. L. P. Deshmukh, Principal and Head, Department of Botany, Nutan Maratha College, Jalgaon. We are indeed indebted to him for his expert guidance constructive criticism, through discussion and continuous inspiration through out of the course and especially during dissertation. Besides we are thankful to Prof. Mrs. Nafisa Tadavi Madam, Prof. Kiran Patil madam for their help during work.

Besides we are also greatly indebted to non-teaching staff members, research scholars and our collogues for their cooperation in every ways possible. Last but not the least; we are heartily thankful to our parents and friends for their inspiration through the course.

Thanking all.

Snehal Ganesh Ranit

A Dissertation on

Orchids of Manudevi forest, Jalgaon district, Maharashtra.

Submitted to



J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE COMMERCE AND SHRI. G. R. PANDIT SCIENCE

COLLEGE

NUTAN MARATHA COLLEGE, JALGAON

In Partial Fulfillment of

M.Sc. in Botany

Submitted by

Prasad Kailas Sonawane

M.Sc. (Botany) IInd Year

Supervised By

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany

J.D.M.V.P. SAMAJ'S, SHRI S. S. PATIL ART'S, SHRI. BHAUSAHEB T. T. SALUNKHE

COMMERCE AND SHRI. G. R. PANDIT SCIENCE COLLEGE (NUTAN MARATHA COLLEGE), JALGAON

This is to certify that the dissertation work entitled "Orchids of Manudevi forest, Jalgaon district, Mahrashtra" is the original work carried out by Prasad Kailas Sonawane, under the supervision of Prof. Dr. L. P. Deshmukh for partial fulfillment of M.Sc. (Botany) during the academic year 2022-23 at Nutan Maratha College, North Maharashtra University, Jalgaon, MS, India.

Submitted for the project viva-voce examination held on......

Miss - Kiran P. Patil

Prof. Dr. L. P. Deshmukh

External Examiner

Principal,

Reader and Head,

Department of Botany,

Nutan Maratha College, Jalgaon

DECLARATION

I confirm that the project work titled "Orchids of Manudevi forest, Jalgaon district, Maharashtra" being submitted in partial fulfillment for the M.Sc. (Botany) is the original work carried out by us. It was not the formed the part of any other project work submitted for the degree; either in this or other university.

Prasad Kailas Sonawane

I certify that the declaration made above by the candidate above.

cam and continuous traditation through put of the errors and

Prof. Dr. L. P. Deshmukh

Principal and Head, Department of Botany, NUTAN MARATHA COLLEGE, JALGAON

ACKNOWLEDGEMENT

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Department of Botany, Nutan Maratha College, Jalgaon. We are indeed
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Thanking all.

Prasad Kailas Sonawane

Project Report On

"SYNTHESIS OF UNDOPED AND MAGNESIUM DOPED ZnO BASED THIN FILM BY SOL GEL METHOD"

SUBMITTED TO

Department of Physics,

J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon



3

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3

9 9 9

By

Mr. Vishal Rajendra Patil

For the degree of

Master of Science

DEPARTMENT OF PHYSICS

2022-2023

Dr. K. B. Patil

Project Guide Assistant Professor

J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science



This is to certify that the project report entitled

"SYNTHESIS OF UNDOPED AND MAGNESIUM DOPED ZnO BASED THIN FILM BY SOL GEL METHOD"

Submitted By

Mr. Vishal Rajendra Patil

Is the original independent work of the student herself, under my supervision during her stay in this University in the 2022-2023 for the partial fulfilment of project report. To the best of my knowledge all the references studied for the preparation in this work have been properly acknowledged.

DATE: 31/57 2023

HEAD DEPT. OF PHYSICS JDMVPS's

Shri S.S.Patil Arts, Shri Bhausaheb T.T.Salunkhe Comm. & Shri. G. R. Pandit Science College, Jaigaon

Assistant Professor,

Department of Physics,

Interior Francisco

A Thesis On

Study of Pbs Nanoparticles Synthesized by Chemical Route With Different Concentrations.

A THESIS SUBMITTED TO "DEPARTMENT OF PHYSICS"

J.D.M.V.P. S Co-Op SAMAJ's
SHRI.S. S. PATIL ARTS, SHRI.BHAUSAHEB T.T. SALUNKHE COMMERCE
AND SHRI.G. R. PANDIT SCIENCE COLLAGEJALGAON-425001

(NUTAN MARATHA COLLAGE, JALGAON)



FOR THE DEGREE OF

MASTER OF SCIENCE

IN

PHYSICS

Miss Janhvi Mahendra Sonawane (MSc 2nd YEAR)

Seat No. -

377837

Under The Guidance Of

Prof. Dr. K. B. Patil

Department Of Physics

J. D. M. V. P. Co-Op. Samaj Shri. S. S. Patil Arts, Bhausaheb Shri. T. T. Salunkhe Commerceand Shri G. R. Pandit Science College Jalgaon.

Academic Year 2022-2023

J. D. M. V. P. Co-Op. Samaj's

Shri, S. S. Patil Arts, Bhausaheb Shri, T. T. Salunkhe Commerce
and Shri, G. R. Pandit Science College Jalgaon.



This is certified that "JANHVI MAHENDRA SONAWANE" has completed their project work entitled 'Study of Pbs Nanoparticles Synthesized by Chemical Route With Different Concentrations' the fulfilment of M Sc (Physics) at J. D. M. V. P. Co-Op. Samaj's, Shri. S. S. Patil Arts, Bhausaheb Shri. T. T. Salunkhe Commerce and Shri G. R. Pandit Science College Jalgaon. During the academic year 2019- 2020, carried out project work under my supervision.

Date: - 31 1 2023

Place:- Jalgaon

DR.K.B.PATIL

Guide

God Examined &

PR

PROF.R.B.DESHMUKH

Head

Department of Physics

A Project Report On

SYNTHESIS AND CHARACTERISATION OF MANGANESE DOPED CdS NANOPARTICLE

A PROJECT REPORT SUBMITTED TO

Department of Physics

J.D.M.V.P. S Co-Op SAMAFS
SHRLS. S. PATIL ARTS, SHRLBHAUSAHEB T.T. SALUNKHE
COMMERCE.
SHRLG. R. PANDIT SCIENCE COLLAGEJALGAON-425001

(NUTAN MARATHA COLLAGE, JALGAON)



FOR THE DEGREE OF MASTER OF SCIENCE IN PHYSICS

By Miss, Madhumati Anil Ahirrao (MSc 2nd YEAR)

Seat no - 377833

Under The Guidence Of

Prof. Dr. K. B. PATIL

Department Of Physics

J. D. M. V. P. Co-Op. Samuj's

Shri, S. S. Patil Arts, Bhausaheb Shri, T. T. Salunkhe Commerce and Shri, G. R. Pandit Science College Jalgaon.

Academic Year 2022-2023

J. D. M. V. P. Co-Op. Samaj's

Shri, S. S. Patil Arts, Bhausaheb Shri, T. T. Salunkhe Commerce and Shri,G. R. Pandit Science College Jalgaon.



This is certified that, "Madhumati Anil Ahirrao" has completed their project work entitled Synthesis and characterisation of manganese doped CdS nanoparticle the fulfillment of M.Sc.(Physics) at J. D. M. V. P. Co-Op. Samaj's, Shri. S. S. Patil Arts, Bhausaheb Shri. T. T. Salunkhe Commerce and Shri.G. R. Pandit Science College Jalgaon. During the academic year 2022-2023, carried out project work under my supervision.

Date: 3/1/2023

Place:- Jalgaon

to alie

Dr. K.B.Patil Guide Examined &

Prof. R.B.Deshmukh Head of Department Physics

A

Project Report On

Fabrication and characterization of rare-earth (Ce) doped ZnO nanomaterials for use in electronic devices

SUBMITTED TO

Department of Physics,

J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon



By

Mr. Nilesh Ramprasad Masule Seas 14. 1-377834 For the degree of

Master of Science

DEPARTMENT OF PHYSICS

2022-2023

Dr. K. B. Patil

Project Guide Assistant Professor

J.D.M.V.P. Samaj's, Shri. S. S. Patil Art's, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri. G. R. Pandit Science College, (Nutan Maratha College), Jalgaon



This is to certify that the project report entitled

Fabrication and characterization of rare-earth (Ce) doped ZnO nanomaterials for use in electronic devices

Submitted By

Mr. Nilesh Ramprasad Masule

Is the original independent work of the student herself, under my supervision during her stay in this University in the 2022-2023 for the partial fulfilment of project report. To the best of my knowledge all the references studied for the preparation in this work have been properly acknowledged.

DATE: 3 / 57 2023

Dr. K. B. Patil

Assistant Professor,

Department of Physics.

Shri Bheus Shri.G. T.T. ya,Jaiga

> 16/23 16/23

Rechined by

Rahil

12/06/28

End Examiner

A

Project Report On

"Design & Fabrication of Low Cost SpinCoater using Arduino"



SUBMITTED BY

Ms. Harshada Vijay Panman

ROLL NO: 04 SEAT No. : 377835

UNDER THE GUIDENCE OF

Dr. K. B. PATIL

DEPARTMENT OF PHYSICS, NUTAN MARATHA COLLEGE,

JALGAON

2022-2023



'A' Grade (NAAC Re-accredited) 3rd Cycle Department of Physics, Nutan Maratha College, Jalgaon.

CERTIFICATE

This is to certify that the project report entitled "Design & Fabrication of Low Cost Spin Coater using Arduino" is submitted by Ms. Harshada Vijay Panman, student of Department of Physics, Nutan Maratha College, Jalgaon for the partial fulfilment of M.Sc. degree under the supervision and guidance of faculty of and staff during the year 2022-23.

Date: / /2023

Project guide

(Assistant Professor) But Experimental Assistant Professor)

(Head of Department) PROF. R. B. Deshmukh Department of Physics,

Nutan Maratha

College,

Jalgaon

ii Page



J.D.M.V.P.S.CO.-OP. SAMAJS

Shri.S.S.Pandit Art's, Shri.Bhausaheb T.T.

Salunkhe Commerce &

Shri.G.R.Pandit Science College, Jalgaon- 425001

CERTIFICATE

This is Certify that project report entitled,

"CLAP SWITCH CIRCUIT USING IC555"

Submitted by,

Ms. MAYURI KIRANKUMAR BAGUL

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN ELECTRONICS

Under my guidance during the academic year

2022-2023

H.O.D

PROF. K.B.PATIL SIR

INTERNAL EXAMINER

PROJECT GUIDE

PROF.K.B.PATIL SIR

PROF.R.SALUNKHE SIR

EXTERNAL EXAMINER

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Introduction

Basic principle

Chapter -2 circuit diagram

Working and description

Chapter -3 systems component

ICS55

Resistors

Capacitor

Microphone

CD4017IC

IN4007Dide

LED

9V battery

Chapter-4 PCB designed

Chapter - 5 advantage & Disadvantage

Chapter -6 application

Chapter - 7 Result & Conclusion

Chapter -8 future scope & reference



LD.M.V.P.S.CO.-OP. SAMAJ'S

Shri.S.S.Pandit Art's, Shri.Hhausaheb T.T.

Salunkhe Commerce &

Shri.G.R.Pandit Science College, Jalgaon- 425001

CERTIFICATE

This is Certify that project report entitled,

"RAIN WATER SENSOR USING IC555"

Submitted by.

Ms. PRERANA SUNIL PATIL

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN ELECTRONICS

Under my guidance during the academic year

2022-2023

H.O.D

PROF. K.B.PATIL SIR

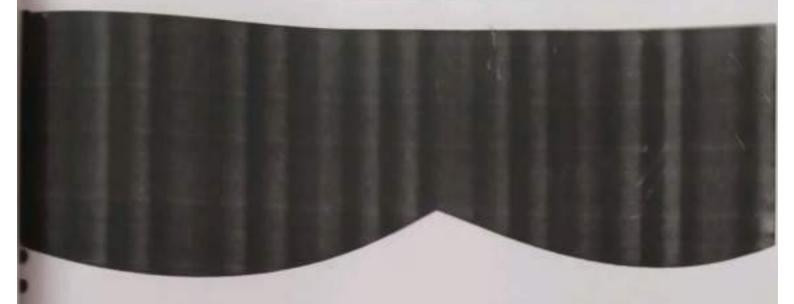
PROJECT GUIDE

PROF.K.B.PATIL SIR

PROF.R.SALUNKHE SIR

INTERNAL EXAMINER

EXTERNAL EXAMINER



A

PROJECT REPORT

ON

RAIN WATER SENSOR



Shri S. S Patil arts shri Bhusaheb T. T. Salunkhe Commerce And Shri G. R Pandit Science College Jalgaon.

A Project report on

Automatic night lamp using ldr

Submitted in partical fulfilment of the requirement for the award of the degree.

Bachelor in science

In electronics By

Name: Anant vikas Badgujar

Roll No: 68

Sub: Electronics

J. D.M. V. P. 'Arts', Commerce And Science College, Jalgaon.

CERTIFICATE

Certifief that the project work intittled automatic night lamp using ldr. carried out by Mr. Anant Vikas Badgujar in partial fulfilled for the award of Bachelor of science (Electronics) prescribed by J. D. M. V. P. Collage Jalgaon during the academic year of 2022-2023. It sugested that all correction or suggestion indicated for assessment have been approved as it satisfied the acadmic requirement in respect of project work prescribe the said degree.

Internal Examinar

External Examinar



J.D.M.V.P.S.CO.-OP. SAMAJ'S

Shri.S.S.Pandit Art's, Shri.Bhausaheb T.T.

Salunkhe Commerce &

Shri.G.R.Pandit Science College, Jalgaon- 425001

CERTIFICATE

This is Certify that project report entitled,

"PULSE MONITORING SYSTEM USING ARDUINO UNO"

Submitted by,

Mr. MAHESH ROHIDAS BIRPAN

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN ELECTRONICS

Under my guidance during the academic year

2022-2023

H.O.D

Dr. K. B. PATIL

INTERNAL EXAMINER

PROTECT GUIDE

Dr. K. B. PATIL

Dr. R. S. SALUNKE

WAL EXAMINER

2022 - 2023

PULSE MONITORING SYSTEM USING ARDUINO UNO

The sensor of then interfaced to an Arduino UNO control of that permits checking of the seat value.

MAHESH ROHIDAS BIRPAN T. Y. BSc (ELECTRONICS) 2022 - 2023 Seat NO - 340278

College Name - Nutan Maratha College Jalgaon

A PROJECT REPORT ON

WATER LEVEL INDICATOR USING IC555

2022-2023



Submitted by : Mayur Sanjay Patil

Class :- T.Y.B.Sc. Physics

PRN No. 2019015400338461

CERTIFICATE

This is certify that the dissertation titled WATER LEVEL INDICATOR USING IC555 MAYUR SANJAY PATIL

Completed successfully the work assigned to her as a part of B.Sc. with Physics in our college Nutan Maratha College, Jalgaon.

This is the bonafite work carryout the candidate under our supervision and guidance and is of sufficiently high standard for the award of the

B.Sc. in the year

2022-2023

Prof. K.BPatil

Physics

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Prof. R.B.Deshmukh

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Kailash.B.Patil Sir



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CERTIFICATE

This is to certify that the project

Entitled "FIRE ALARM CIRCUIT"

is submitted for Fulfillment of requirement Degree of

BACHELOR OF SCIENCE (PHY)

By

RUTUJA SUHAS BAGUL

This project is authentic work done by her during the academic year 2022-2023 under my Supervision and guidance

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Int 2

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CERT1F1CATE

LARAM* IS SUBMITTED FOR FULFILLMENT OF REQUIREMENT DEGREE OF.

BATCHELOR OF SCIENCE (PHYSICS) BY

SEJAL SURYAKANT PATIL

the is bonafied of this college and this project work been carried but by him during the academic year 2022-2023 under my supervision and guidance.

PROJECT GUIDE (Prof K.B. Patil)

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H. O. D

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Shri S. S. Patil Art, Shri. Bhausaheb T. T. Salunkhe Commerce and Shri G. R. Pandit Science College, Jalgaon-425001

Project on ULTRASONIC INTERFEROMETER

For academic year 2022-2023

CERTIFICATE

This is to certify that the project entitled

"ULTRASONIC INTERFEROMETER"

is submitted for fulfillment of requirement degree Bachelor of Science (Physics)

By

KRUSHNAL BABULAL PATIL & PRAFUL PRADIP BAROLE

This Project is an authentic work done by these two students during academic year 2022-2023 under my supervision and guidance

Head of Department R. B. Deshmukh

Project Guide Nitin Bayiskar

Exercis Exercise



J.D.M.V.P.S.CO.-OP. SAMAJ'S

Shri.S.S.Pandit Art's, Shri.Bhausaheb T.T.

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CERTIFICATE

This is Certify that project report entitled,

"RAIN ALARM DETECTOR"

Submitted by,

Mr. DIPAK PRAKASH CHAVHAN

Ms. NIDHI RATILAL PATIL

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN PHYSICS

Under my guidance during the academic year

2022-2023

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Dr. K. B. PATIL

PROJECT GUIDE

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PROF. R. B. DESHMUKH

INTERNAL EXAMINER

EXTERNAL EXAMINER

ACKNOWLEDEMENT

It gives me immense pleasure in presenting the dissertation of project entitled "RAIN ALARM DETECTOR".

I express my deep gratitude toward Dr. K. B. Patil sir and Prof. R. B. Deshmukh sir for his effort in giving a splendid guidance, constant encouragement and support without which my project could not be succeeded. With great privilege and pleasure first I would like to express my thanks to Head of department for availing laboratory infrastructure and technical support. I also appreciate the support of all other teachers in the department.

Last but not the least, I would like to express my hanks to my classmates and Lab. Assistants and all lon-Teaching Staff member for their help and poperation in laboratory.

Mr. DIPAK P. CHAVHAN

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T.Y.B.SC (PHYSICS)



J.D.M.V.P.S.CO.-OP. SAMAJ'S

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CERTIFICATE

This is Certify that project report entitled,

"RAIN DETECTOR ALARM"

Submitted by,

Ms. LA MI TIKAMDAS POPTANI

Mr. ITESH PRAVIN PATIL

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN PHYSICS

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INTERNAL EXAMINER

Prof R.B Deshmukh Sir

PROJECT GUIDE

PROF. R. B. DESHMUKH

Dr. K. B. PATIL

ACKNOWLEDEMENT

It gives me immense pleasure in presenting the dissertation of project entitled "RAIN DETECTOR ALARM".

I express my deep gratitude toward Dr. K. B. Patil for his effort in giving a splendid guidance, constant encouragement and support without which my project could not be succeeded. With great privilege and pleasure first I would like to express my thanks to Head of department for availing laboratory infrastructure and technical support. I also appreciate the support of all other teachers in the department.

Last but not the least, I would like to express my thanks to my classmates and Lab. Assistants and all Non-Teaching Staff member for their help and cooperation in laboratory.

MS. LAXMI POPTANI
MR. HITESH PATIL

T.Y.B.SC (PHYSICS)

Dry soil detector

Design Team = 02

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- 2. Jitendra gokul patil no 84

Standard - Tybsc [physics department]

J.D.M.V.P Nutun maratha college jalgaon

Year - 2022/23

J.D.M.V.P CO-OP SAMAJ ARTS , COMMERCE AND SCIENCE COLLEGE JALGAON

CERTIFICATE

This is certify that project report entitled

DRY SOIL DETECTOR

Submitted by

- · Mr . Sameer Shakil Shaikh
- Mr. Jitendra gokul patil

As part of fulfillment of third year in Degree of Bachelor of Science in Physics Under my guidance during the academic year

2022 - 23

HOD

project guide

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CERTIFICATE

This is Certify that project report entitled.

'AUTOMATIC NIGHT LAMP'

Submitted by,

Ms. NIKITA DAULAT PATIL

As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN PHYSICS

Under my guidance during the academic year

2022-2023

Dr. K.B.PATIL GIR p.B. beshmuch

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S 80 141 2/15

INTERNAL EXAMINER

EXTERNAL EXAMINER

PROJECT REPORT ON "AUTOMATIC NIGHT LAMP"

Submitted by NIKITA DAULAT PATIL

In partial Fulfilment of the Requirement For the Award of Degree of

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For academic year 2022-23

Department of physics
J.D.M.V.P. CO-OP Samaj's
Arts, science & commerce college, jalgoan

Affiliated to North Maharashtra university, jalgoan

What is solar power? Converting the sunlight into electricity by using either Concentrated Solar Power that is indirect or by using photovoltaic (also called solar panels) indirectly is called solar power. In photovoltaic the light is converted into electricity by the use of photoelectric effect.

生化学的 一 生化物 5

J.D.M.V.P.S.CO.-OP. SAMAJ'S SHRI.S.S.PANDIT ART'S, SHRI.BHAUSAHEB T.T. SALUNKHE COMMERCE, & SHRI.G.R.PANDIT SCIENCE COLLEGE, JALGAON.

CERTIFICATE

This is Cetify that project report entitled, "FABRICATION OF SOLAR LAMP"

Submitted by, Mr. Yogesh Vivekanand Kandare As part of fulfilment of third year

DEGREE OF BACHELOR OF SCIENCE IN PHYSICS

Under my guidance during the academic year 2022-23

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Prof.R.B.Deshmukh Sir

PROJECT GUIDE

Prof.Dr.K.B.PATIL Sir

INTERNAL EXAMINER

INTERNAL EXAMINER



J.D.H.V.F. Co-op. Samai's

SHRI.S.S.PATIL ARTS, SHRI. BHAUSAHEB T.T.SALUNKHE COMMERCE AND SHRI. G.R.PANDIT SCIENCE, COLLEGE JALGAON

PHYSICS DEPARTMENT SUBJECT - Automatic Street Light

GUIDED BY. KAILASH B.PATIL SIR

CREATED BY: MADHURI SITARAM PATIL ROLL NO: 26

HOD

K.B. Patil sir Kelahe Guide

Thtaraha Examinar Int

Extagglyar GM 18-11. Ex1

Shir S.Spatil Art, Shri.Bhaushaheb T.T Salunkha Commerce and Shri G.R.Pandit ScienceCollege, Jalgaon-425001 (M.S.) (NutanMarathaCollege,Jalgaon)



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CERTIFICATE

This is Certify that project report entitled,

"METAL DETECTOR CIRCUIT USING IC555"

Submitted by,

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As part of fulfilment of third year

DEGREE IS BACHELOR OF SCIENCE IN PHYSICS

Under my guidance during the academic year

2022-2023

R. B. BESHMUKH

DR. K. B. PATIL

PROF. R. B. DESHMUKH

INTERNAL EXAMINER

कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ नुतन मराठा महाविद्यालय जळगांव मानसशास्त्र विभाग लघुशोध निबंध

माध्यमिक शाळेतील विद्यार्थ्याचा अभ्यास सवयीचा अभ्यास करणे

:- सादरकर्ता -:
कु. कारा तेरसिंग बारेला
एम.ए.2Y (मानसशास्त्रविभाग)
नुतन मराठा महाविद्यालय, जळगांव
विभाग प्रमुख
प्रा. डॉ. जे.पी. सोनटक्के
वर्ष 2022-2023

प्रमाणपत्र

उत्तर महाराष्ट्र विद्यापीठ अंतर्गत असलेले नृतन मराठा महाविद्यालय जळगाव येथील कारा तेरिसंग बारेला यांनी माध्यमिक शाळेतील विद्यार्थ्यांच्या अभ्यास सवयीचा अभ्यास करणे या विषयावरील लघुशोध निबंध शैक्षणिक वर्ष 2022-2023 वर्षा करिता सादर केला आहे. या शोध निबंधाचे काम माझ्या मार्गदर्शना खाली परिश्रम पूर्वक तयार केले आहे.

> ABRULLS OCIONILS

मानसशास्त्र विभागप्रमुख प्रा. डॉ. जे.पी. सोनटक्के नुतन मराठा महाविद्यालय, जळगाव

प्रतिज्ञापत्र

माध्यमिक शाळेतील विद्यार्थ्यांच्या अभ्यास सवयीचा अभ्यास करणे. या प्रस्तुत लघुशोध निबंधात यांनी विविध संदर्भीय पुस्तकांचा अभ्यास करून यातील माहितीचे एकत्रीकरण करून व माहिती आपल्या परीने उत्कृष्टपणे मांडण्याचा प्रामाणिकपणे प्रयत्न केला आहे

> Khovela क्. कारा तेरसिंग बारेला

एम.ए.२Ү (मानसशास्त्रविभाग)

नुतन मराठा महाविद्यालय, जळगाव

अनुक्रमणिका

अ.क्र.	विभाग, शीर्षक, उपशीर्षक	पृष्ठ क्रमांक
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उत्तर महाराष्ट्र विद्यापीठ अंतर्गत नूतन मराठा महाविद्यालय, जळगांव

पदव्युत्तर मानसशास्त्र विभाग वर्ष २०२२ - २०२३

संशोधन अहवाल

विषय - शहरी आणि ग्रामीण भागातील स्त्री-पुरुष यांच्या म्हानसिक आरोग्याचा आभ्यास करणे.

> सादरकर्ती कु. सीमा दशरथ चव्हाण एम.ए.2Y (मानसशास्त्रविभाग) नूतन मराठा महाविद्यालय जळगांव

मार्गदर्शक प्रा. डॉ. जे.पी.सोनटक्के

प्रमाणपत्र

उत्तर मराठा विद्यापीठअंतर्गत असलेल्या नूतन
मराठा महाविध्यालय जळगांव येथील कु. सीमा दशरथ चव्हाण
यांनी शहरी भागातील स्त्री-पुरुष आणि ग्रामीण भागातील स्त्रीपुरुष यांच्या मानसिक आरोग्याचा अभ्यास करणे या
विषयावरील संशोधन प्रकल्प शैक्षणिक वर्ष २०२२-२०२३ या
वर्षाकरीता सादर केला आहे. हा संशोधन प्रकल्प त्यांनी माझ्या
मार्गदर्शनाखाली परीश्रमपूर्वक तयार केला आहे.

Apple 1/23

विभाग प्रमुख

प्रा. डॉ. जे.पी.सोनटक्के

(मानसशास्त्रविभाग)

न्तन मराठा महाविद्यालय जळगांव

ऋणनिर्देश

विषयाचे नाव : शहरी आणि ग्रामीण भागातील स्त्री-पुरुष यांचा मानसीक आरोग्याचा अभ्यास करणे.

या विषयाच्या प्राध्यपकांनी बहुमोल मागदर्शन मिळाले या साठी मी विभाग प्रमुख प्राध्यापक प्रा. डॉ. जे.पी.सोनटक्के यांचे आभार व्यक्त करते.

सादरकर्ती

कु. सीमा दशरथ चव्हाण एम.ए.2Y (मानसशास्त्रविभाग) नृतन मराठा महाविद्यालय जळगांव

प्रतिज्ञापत्र

विषयाचे नाव - शहरी आणि ग्रामीण भागातील स्त्री आणि पुरुष यांचा मानसिक आरोग्याचा अभ्यास करणे.

या संशोधन प्रकल्पात भी विविध संदर्भ पुस्तकांचा अञ्चास करून ती माहिती आपल्या परिने उत्कृष्टपणे मांडण्याचा प्रामाणिक प्रयत्न केला आहे.

Elminar HIGGART

कु. सीमा दशरथ चव्हाण एम.ए.2Y (मानसशास्त्रविभाग) नूतन मराठा महाविद्यालय जळगांव

अनुक्रमणिका

प्रकरण - 1

- 1.1 संशोधन अर्थ आणि व्याख्या
- 1.2 संशोधन पार्श्वभूमी
- 1.3 संशोधनातील प्रमुख संकल्पनाचे विवेचेन

ж

- 1.4 संशोधन अभ्यासाचे महत्व
- 1.5 संशोधन व्याप्ती
- 1.6 संशोधनाची उदिष्टे
- 1.7 संशोधनाची गृहीतेके
- 1.8 संशोधनाची मर्यादा
- 1.9 सारांश

प्रकरण - 2

- 2.1 प्रस्तावना
- 2.2 संबंधित साहित्यांचे महत्व
- 2.3 सारांश

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- 3.1 संशोधन पद्वतीतील प्रस्तावना
- 3.2 संशोधनातील साक्रीयातम्क व्याख्या
- 3.3 संशोधनातील परिवर्तक
- 3.4 नमुना निवड
- 3.5 संशोधन आराखडा
- 3.6 संशोधन साहित्य
- 3.7 संशोधनाचे संख्याशास्त्रीय उपयोक्ते

संख्याशास्त्रीय फलिते निष्कर्ष

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ

अंतर्गत जे. डी. एम. व्ही. पी. कला, वाणिज्य व विज्ञान महाविद्यालय जळगाव.

(नूतन मराठा महाविद्यालय जळगाव)



पदव्युत्तर मानसशास्त्र विभाग

वर्ष २०२२-२३

संशोधन अहवाल

विषय: खाजगी नोकरी आणि सरकारी नोकरी करण:न्या स्त्री पुरुषांचे वैवाहिक समायोजनाचा तुलनात्मक आभास करणे.

-: मार्गदर्शक :-

-: सादरकर्ता :-

पा. डॉ. जे. पी. सोनटक्के (मानसशात्र विभागप्रमुख) नूतन मराठा महाविद्यालय, जळगाव

विश्वेश राजेश दिवेकर एम.ए. भाग २ (मानसशास्त्र) न्तन मराठा महाविद्यालय जळगाव

प्रमाणपत्र

प्रमाणित करण्यात येते कि <u>विश्वेश राजेश दिवेकर</u> यांनी माझ्या मार्गदर्शनाखाली "खाजगी नोकरी आणि सरकारी नोकरी करणान्या स्त्री पुरुषांचे वैवाहिक समायोजनाचा तुलनात्मक आभास करणे." या विषयावर हा शोध प्रबंध कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठाशी संतिगनत नृतन मराठा महाविद्यालय जळगाव

मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोत्तर मानसशात्र विभाग या पदवी साठी सादर करण्यात येत आहे. त्यांनी हे संशोधन कार्य माझ्या मार्गदर्शनाखाली पूर्ण केले आहे.या करीत हे प्रमामपात्र देण्यात येत आहे.

> ABRILLY 06/01/23

स्थळ : जळगाव

दिनांक: 01/04/2023

मार्गदर्शक

प्रा.डॉ.जे.पी.सोनटक्के

मानसशात्र विभागप्रमुख

न्तन भराठा महाविद्यालय जळगाव

ऋणनिर्देश

"कोणतेही कार्य यशस्वी करण्याकरिता आवश्यकता असते मार्गदर्शनाची कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठाशी संतन्नित नूतन मराठा महाविद्यालय जळगाव

मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोत्तर मानसशात्र विभाग पदवीशाठी "खाजगी नोकरी आणि सरकारी नोकरी करणान्या स्त्री पुरुषांचे वैवाहिक समायोजनाचा तुलनात्मक आभास " या विषयावर संशोधन कार्य पूर्ण करून शोध प्रबंध सादर करण्यासाठी अनेक थोर व्यक्तीचे मार्गदर्शन व सहकार्य मला लाभले म्हणून या सर्वाचे मनपूर्वक आभार मानून नैव्यक्त करणे हे माझे कर्तव्य समजतो.

या संशोधनाची संधी उपलब्ध करून देणारे व सातत्याने मार्गदर्शन करणारे प्रा. इं.जे.पी.सोनटक्के, मानसशाव विभागपमुख नूतन मराठा महाविद्यालय जळगाव यांनी वेळोवेळी अमूल्य असे मार्गदर्शन केले व सातत्याने प्रेरणा दिली म्हणून मी हे संशोधन पूर्ण करू शकलो. म्हणून मी सदैव त्यांचा ऋणात राहीन.

सादर संशोधन कार्यासाठी प्रा. समाधान पाटील सर यांचे सहकार्य लाभले त्या बद्दल त्यांचेही आभार मानतो.

स्थळ : जळगाव

दिनांक :

विश्वेश राजेश दिवेकर

(विद्यार्थी) नूतन मराठा महाविद्यालय जळगाव

अनुक्रमणिका

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कवयित्री बहीणबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगांव अंतर्गत

श्री.एस.एस.पाटील कला, श्री.भाऊसाहेब टी.टी.साळुंखे वाणिज्य आणि श्री.जी.आर.पंडीत विज्ञान महाविद्यालय, जळगांव

(नृतन मराठा महाविद्यालय, जळगांव)

पदव्युत्तर मानसशास्त्र विभाग

संशाधिन अहवाल

विषय

शहरी भागातील मुले-मुली आणि ग्रामीण भागातील मुले-मुली यांच्या मानसीक स्वास्थाचा अभ्यास करणे

> सादरकर्ती वैशाली नामदेवराव जाधव एम. ए. भाग-1 (मानसशास्त्र विभाग) नुतन मराठा महाविद्यालय, जळगांव.

-: मार्गदर्शक:-प्रा.जे.पी.सोनटक्कें

प्रमाणपत्र

उत्तर महाराष्ट्र विदयापिठअंतर्गत असलेल्या नुतन मराठा महाविदयालय जळगाव येथील कु.वैशाली नामदेवराव जाधव

यांनी शहरी भागातील मुले-मुली आणि ग्रामीण भगातील मुले-मुली यांच्या मानसीक स्वास्थाचा अभ्यास करणे या विषयावरील संशोधन प्रकल्प शैक्षणिक वर्षे 2022-2023 या वर्षाकरीता सादर केला आहे. हा संशोधन प्रकल्प त्यांनी माझ्या मार्गदर्शगखाली परिश्रमपुर्वक तथार केला आहे.

विभाग प्रमुख प्रा. डॉ. जे, पी. सोनटक्के

(मानसशास्त्र विभाग)

ऋणनिर्देश

"शहरी भागातील मुले-मुली आणि ग्रामीण भागातील मुले-मुली यांच्या मानसीक स्वास्थाचा अभ्यास करणे"

या विषयांच्या सर्दभात मला वेळोवेळी मानसशास विभागाच्या प्राध्यपकांनी बहुमोल मार्गदर्शन मिळाले या साठी मी विभाग प्रमुख प्राध्यापक डॉ. जे. पी. सोनटक्के यांचे आभार व्यक्त करते.

तसेच श्री पाटील सर यांचे महत्त्वाचे मार्गदर्शन लाभले.त्यांचीही भी ऋणी आहे.

सादस्कर्ती

वैशाली नामदेवराव जाधव

एम, ए. भाग-। (मानसशास्त्र विभाग) नुतन मराठा महाविद्यालय, जळगांच.

प्रतिज्ञापत्र

"शहरी भागातील मुले-मुली आणि ग्रामीण भागातील मुले-मुली यांच्या मानसीक स्वास्थाचा अभ्यास करणे"

या संशोधन प्रकल्पात मी विविध संदर्भ पुस्तकाचा अभ्यास करून ती माहिती आपल्या परीने उत्कृष्टपणे मांडण्याचा प्रामाणिक प्रयत्न केला आहे.

वैशाली नामदेवराव जाधव

एम. ए. भाग-। (मानसशास्त्र विभाग) नुतन मराठा महाविद्यालय, जळगांव.

अनुक्रमणिका

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- 1.1: संशोधन अर्थ आणि व्याख्या
- 1.2: संशोधन पार्श्वभूमी
- 1.3: संशोधनातील प्रमुख संकल्पनांचे विवेचन
- 1.4: संशोधन अभ्यासाचे महत्व
- 1.5: संशोधनाची वैशिष्ट्ये
- 1.6: संशोधनाची प्रूहितके
- 1.7: संशोधनाची मर्यादा
- 1.9: सारांश

प्रकरण: 2

- 2.1: प्रस्तावना
- 2.2: संबंधित संशोधन साहित्याचे महत्त्व
- 2.3: सारांश

प्रकरण: 3

- 3.1: संशोधन पध्दतीतील प्रस्तावना
- 3.2: संशोधनातील संक्रियात्मक व्याख्या
- 3.3: संशोधनातील परिवर्त्यके
- 3.4: नमुना निवड

- 3.5: आराखडा
- 3.6: संशोधन साहित्य
- 3.7: संशोधनाचे संख्याशासीय उपयोजन
- 3.8: सारांश

प्रकरण: 4

- 4.1 प्रस्तावना
- 4.2: संख्याशासीय फलितांचे विश्लेषण विवेचन

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- **5.1:** निष्कर्ष
- 5.2: शिफारशी
- 5.3: सारांश

Rall no - 5 Soul - 980000

कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ अंतर्गत जे .डी .एम. व्ही कला वाणिज्य व विज्ञान महाविद्यालय, जळगाव

पदव्युत्तर मानसशास्त्र विभाग वर्ष २०२२ -२०२३

संशोधन अहवाल

विषय ग्रामीण भागात राहणारी पुरुष व शहरी भागात राहणे पुरुष यांच्यातील वैवाहिक समायोजन अभ्यासणे

:-मार्गदर्शक :-

:- सादरकर्ता :-

प्रा. डॉ . जे.पी. सोनटक्के

लिलाधर दिनकर पाटील

(मानसश्हरत्र विभाग)

एम ए भूग २ (मानसशास्त्र विभाग)

जळगाव

प्रतिज्ञापत्र

विषयाचे नाव. : ग्रामीण भागात राहणाऱ्या पुरुष व शहरी भागात राहणाऱ्या पुरुष यांच्यातील वैवाहिक समायोजन अभ्यासणे.

या ्संशोधन प्रकल्पात मी विविध संदर्भ पुस्तकांचा अभ्यास करून ती माहिती आपल्या पारिने उत्कृष्टपणे मांडण्याचा प्रामाणिक प्रयत्न केला आहे.

ढिकाण -: जळगाव

0.1

दिनांक -

नार्गदर्शक :-

पा.डा.जे.पी.सोनटकके

(मानसशास्त्र विभाग)

नुतन मराठा महाविद्यालय

प्रमाणपत्र

उत्तर महाराष्ट्र विद्यापीठांतर्गत असलेल्या नृतन गराठा महाविद्यालय जळगाव, येथील मानसशास्त्र विभाग एन ए भाग २ मधील लिलाधर दिनकर पाटील यांनी ग्रामीण भागात राहणाऱ्या पुरुष व शहरी भागात राहणाऱ्या पुरुष यांच्यातील वैवाहिक समायोजन अभ्यासाणे या विषय वरील संशोधन प्रकल्प शैक्षणिक वर्ष २०२२ -२०२३ करीता सादर केला आहे. हा संशोधन प्रकल्प त्यांनी माझ्या मागदशकाखाली पारित्रहम पूर्वक तयार केला आहे.

ढिकाण- जळगाव

दिनांक -

Velo2/5

-: मार्गदर्शक -:

पा.डा.जे.पी.सोनटके

(मानसशास्त्र विभाग)

नुतन मराठा महाविद्यालय

ऋणनिदश

विषयाचे नाव -: ग्रामीण भागात सहणाऱ्या पुरुष व शहरी भागात सहणाऱ्या पुरुष यांच्यातील वैवाहिक समायोजन अभ्यासाणे.

या विषयांचा संदर्भात मला वेळोबेळी मानसशास्त्र विभागाच्या पाधधपंकाचे बहुमील मार्गदर्शन मिळाले यासाठी मी मानसशास्त्र विभाग प्रा.डा.जे.पी.सोनटके मदम याचे आभार व्यक्त करते.

> ८ ७ विक्रि सादरकर्ता:-लिलाधर दिनकर पाटील एम ए भाग २ (मानसशास्त्र विभाग) नूतन मराठा महाविद्यालय जळगाव

अनुक्रमणिका

प्रकरण :- १

- १:१ संशोधन अर्थ आणि व्याख्या
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ग्रामीण भागातील स्त्री व पुरुषांच्या चिंतेचा अभ्यास

कवित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठाशी संतरिनत नृतन मराठा महाविद्यालय जळगांव मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोतर मानसशास्त्र विमाग पदवीसाठी सादर करावयाचा

लघुशोध निबंध

शोधकर्ता

किरण महारू पवार

व्दितीय वर्ष एम.ए

मार्गदर्शक

प्रा. डॉ. जे.पी. सोनटके

मानसशास्त्र विभागप्रमुख

नुतन मराठा महाविद्यालय. जळगाव.

सादर वर्षे

5055-53

मार्गदर्शकाचे प्रमाणपत्र

प्रमाणित करण्यात येते की. किरण महारु पवार यांनी

माइया मार्गदर्शनाखाली " ग्रामीण आगातील स्त्री व पुरुषांच्या चितेचा

अभ्यास " या विषयावर हा शोध प्रबंध कवियत्री बहिणाबाई चौधरी उतर

महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातील मानवता विद्याशाखे

अंतर्गत कलेतील स्नातकोत्तर मानसशास्त्र पदवी. या पदवीसाठी सादर

करीत आहे. त्यांनी हे संशोधन कार्य माइया मार्गदर्शनाखाली पूर्ण केलेले

आहे. करिता हे प्रमाणपत्र देण्यात येत आहे.

Seen Assely

ठिकाण: जळगाव

दिनांक:

पा.डॉ. जे.पी. सोनटके

मार्गदर्शक

मानसशास्त्र विमागप्रमुख

प्रतिज्ञापत्र

भी प्रतिज्ञापूर्वक निवेदन करतो की. कवियशै बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातील मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोत्तर मानसशास्त्र पदवी या पदवीसाठी " यामीण भागातील श्री व पुरुषांच्या चिंतेचा अभ्यास "हा शोध प्रबंध प्रा. डॉ.जे.पी. सोनटके, नृतन मराठा महाविद्यालय जळगाव यांच्या मार्गदर्शनाखाली स्वतःच्या क्षमतेनुसार समाधानकारकरित्या पूर्ण केलेले आहे. तसेच हे संशोधन कार्य यापूर्वी कोणत्याही पदवी अथवा पदव्युत्तर अभ्यासक्रमाच्या पूर्वतैसाठी किंवा स्पर्धसाठी सादर केलेले नाही.

भी हे कार्य स्वत:च्या क्षमतेनुसार पूर्ण केलेले असून फक्त कलेतील स्नातकोतर मानसशास्त्र पदवीच्या पूर्वतेसाठीच सादर करीत आहे.

स्थळ :- जळगाव

दिनांक :-

जी.किरण महाड पवार

व्दितीय वर्ष एम.ए

ऋणनिर्देश

कोणतेही कार्य यशस्वी करण्याकरिता आवश्यकता असते मार्गदर्शनाची. कवियी बहिणाबाई चौचरी उत्तर महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातील मानवता विद्याशाखे अंतर्गत कलेतील स्नातकीतर मानसशास्त्र पदती या पदवीसाठी " ग्रामीण भागातील सी व पुरुषाच्या चितेचा अभ्यास " या विषयावर संशोधन कार्य पूर्ण करून शोध प्रबंध सादर करण्यासाठी अनेक योर व्यक्तीचे मार्गदर्शन व सहकार्य मला लामले म्हणून या सर्वाचे मन पूर्वक आभार मानून भूणस्थकत करणे है माझे मी वसंदय समजत्वे.

या संशोधन कार्यक्षाठी सर्वप्रयम संशोधनाची संधी उपलब्ध करून देणारे व सातत्याने मार्गदर्शन करणारे माझे मार्गदर्शक था.बॉ.जे.पी.बॉनटके मानस्थास्य विभागप्रमुख, नुसन मराठा महाविद्यालय जळगाव यांनी वेळोवेळी अमुल्य असे मार्गदर्शन केले व सातत्याने प्रेरणा दिली म्हणून मी है संशोधन कार्य पूर्ण कर शकतो. म्हणून मी सदैव त्यांच्या कृणात राहीत.

स्यळ: जळगाव

टिनाक:

्री. किरण महारु पवार

विदतीय वर्ष एम.ए

<u>अनुक्रमणिका</u>

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तक्ता क्र. शीर्षक पृष्ठ क्र. ४.१ ग्रामीण भागातील स्त्री व पुरुषांच्या मध्यमान, ४५ प्रमाण विचलन व स्वाधीनता मात्रा विश्लेषण शहरी भागातील स्त्री व पुरुषांच्या चितेचा अभ्यास

कवियों बहिणाबाई घाँधरी उत्तर महाराष्ट्र विद्यापीठाशी संलग्नित नुतन मराठा महाविद्यालय जळगांव मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोत्तर मानसशास्त्र विभाग पदवीसाठी सादर करावयाचा

लघुशोध निबंध

शोधकर्ता निलेश राज् राणे व्दितीय वर्ष एम.ए

मार्गदर्शक प्रा. डॉ. जे.पी. सोनटके मानसशास्त्र विभागप्रमुख नुतन मराठा महाविद्यालय, जळगात.

> सादर वर्षे २०२२-२३

मार्गदर्शकाचे प्रमाणपत्र

प्रमाणित करण्यात येते की, निलेश राज् राणे यांनी

माझ्या मार्गदर्शनाखाली " शहरी भागातील स्त्री व पुरुषाच्या चितेचा

अभ्यास " या विषयावर हा शोध प्रबंध कवियत्री बहिणावाई चौधरी उत्तर

महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातील मानवता विद्याशाले

अंतर्गत कलेतील स्नातकोतर मानसशास्त्र पदवी. या पदवीसाठी सादर

करीत आहे. त्यांनी हे संशोधन कार्य माझ्या मार्गदर्शनाखाली पूर्ण केलेले

आहे. करिता हे प्रमाणपत्र देण्यात येत आहे.

Seem OGlostas

प्रा.डॉ. जे.पी. सोनटके

मार्गदर्शक

मानसशास्त्र विभागप्रमुख

नुतन मराठा महाविद्यालय जळगाव

ठिकाणः जळगाव

दिनांक:

प्रतिज्ञापत्र

मी प्रतिज्ञापूर्वक निवेदन करतो की, क्वाबिधी बहिणाबाई जीपरी उत्तर महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातील मानवता विद्याधाओं अतर्गत कलेतील स्वातक्वेतर मानसशास्त्र पदवी वा पदवीसाठी "शहरी भागातील सी व पुरुषांच्या चितेचा अभ्यास "हा शोध प्रवंध पा. डॉ.जो.पी. सीलटके, मुतन मराठा महाविद्यालय जळगाव यांच्या मार्गदर्शनाखाली स्वतःच्या क्षमतेनुसार समाधानकारकरित्या पूर्ण केलेले आहे. तसेच हे संशोधन कार्य यापूर्वी कोणत्याही पदवी अथवा पदव्युतर अभ्यासकमाच्या पूर्वतेसाठी किंवा स्पर्धेसाठी सादर केलेले नाही.

मी है कार्य स्वतःच्या क्षमतेनुसार पूर्ण केलेले असून फक्त कलेतील स्नातकोतर मानसशास्त्र पदवीच्या पूर्वतेसाठीच सादर बरीत आहे.

स्थळ :- जळगांव

दिगांक :-

भी. निलेश राज् राणे

दिदतीय वर्ष एम.ए

ऋणनिर्देश

कोणतेही कार्य यशस्वी करण्याकरिता आवश्यकता असते मार्गदर्शनाची, कवियो विहेणावाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव या विद्यापीठातीत मानवता विद्याशाखे अंतर्गत कलेतील स्नातकोत्तर मानसशास्त्र पदवी या पदवीसाठी " शहरी भागातील सी व पुरुषाच्या चितेचा अभ्यास " या विषयावर सशोधन कार्य पूर्ण करून शोध प्रवंध सादर करण्यासाठी अनेक थोर व्यक्तीचे मार्गदर्शन व सहकार्य मला लाभले म्हणून या सर्वाचे मनःपूर्वक आभार मानून ऋणव्यक्त करणे हे माझे भी कर्तव्य समजतो.

या संशोधन कार्यासाठी सर्वप्रथम संशोधनाची संधी उपलब्ध करून देणारे व सातत्याने मार्गदर्शन करणारे माझे मार्गदर्शक प्रा.डॉ.जे.पी.सोनटके, मानसशास्त्र विभागप्रमुख, नृतन मराठा महाविद्यालय जळगाव यांनी वेळवेळी अमुल्य असे मार्गदर्शन केले व सातत्याने पेरणा दिली म्हणून मी हे संशोधन कार्य पूर्ण कर शकलो. म्हणून मी सदैव त्यांच्या ऋणात सहीन.

सदर संशोधन कार्यासाठी प्रा. समाधान पाटील, गुतन मराठा महाविद्यालय जळगाव यांचे सहकार्य लाभले त्याबद्दल संशोधक त्यांचे आभार मानतो.

स्थळ: जळगाव

दिनांक:

श्री. निर्तेश राज् राणे

व्दितीय वर्ष एम.ए

<u>अनुक्रमणिका</u>

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तकता क. शीर्षक पृष्ठ क.

४.१ शहरी भागातील स्त्री व पुरुषांच्या मध्यमान, ४५

प्रमाण विचलन व स्वाधीनता मात्रा विश्लेषण

Rall no - 5 Soul - 980000

कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ अंतर्गत जे .डी .एम. व्ही कला वाणिज्य व विज्ञान महाविद्यालय, जळगाव

पदव्युत्तर मानसशास्त्र विभाग वर्ष 2022 -2023

संशोधन अहवाल

विषय ग्रामीण भागात राहणारी पुरुष व शहरी भागात राहणे पुरुष यांच्यातील वैवाहिक समायोजन अभ्यासणे

:-मार्गदर्शक :-

:- सादरकर्ता :-

प्रा. डॉ . जे.पी. सोनटक्के

लिलाधर दिनकर पाटील

(मानसशास्त्र विभाग)

एम ए भाग २ (मानसशास्त्र विभाग)

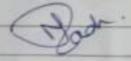
जळगाव

Name: - Bhagyashree Amil Sapkale

class: FY Bisc Roll no! - 125

Subi - EVS

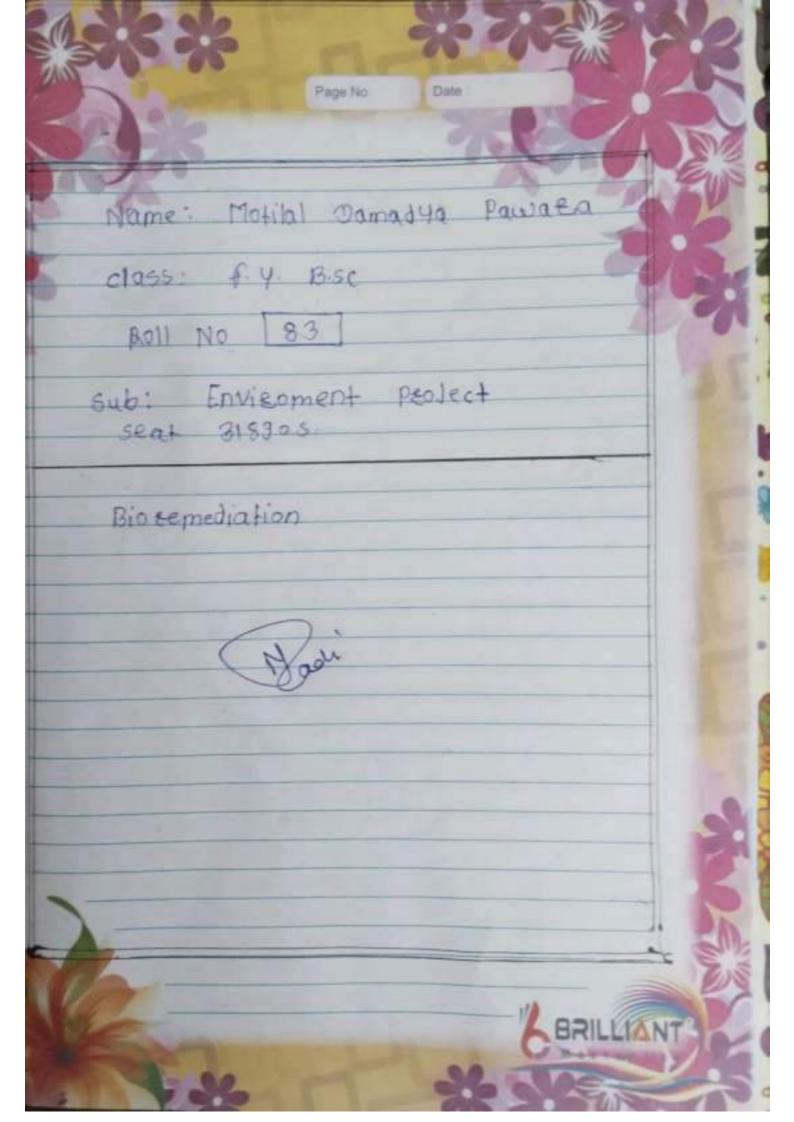
Topic :- Ecosystem.

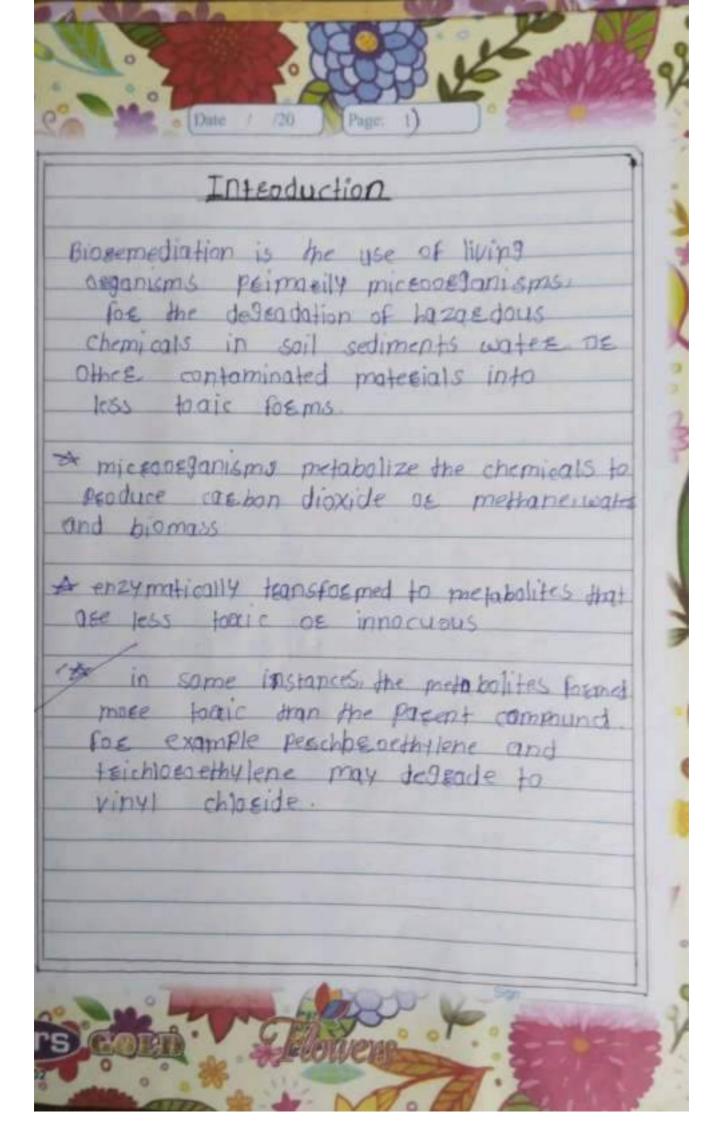


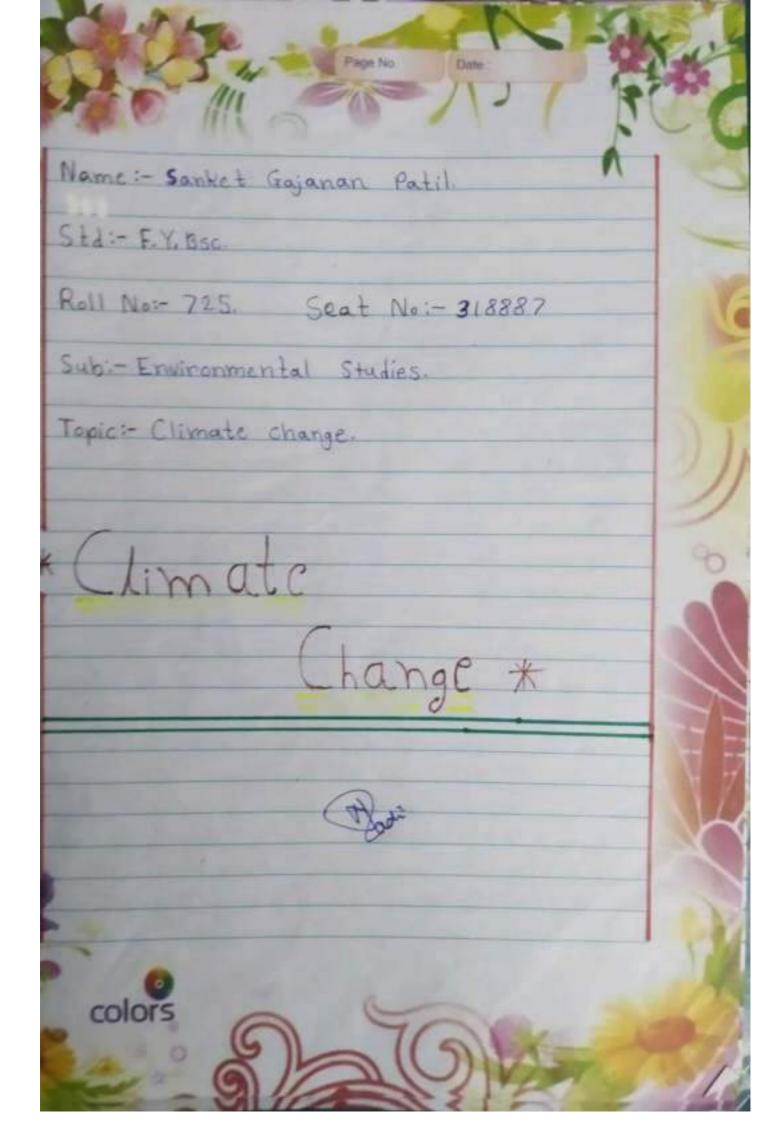


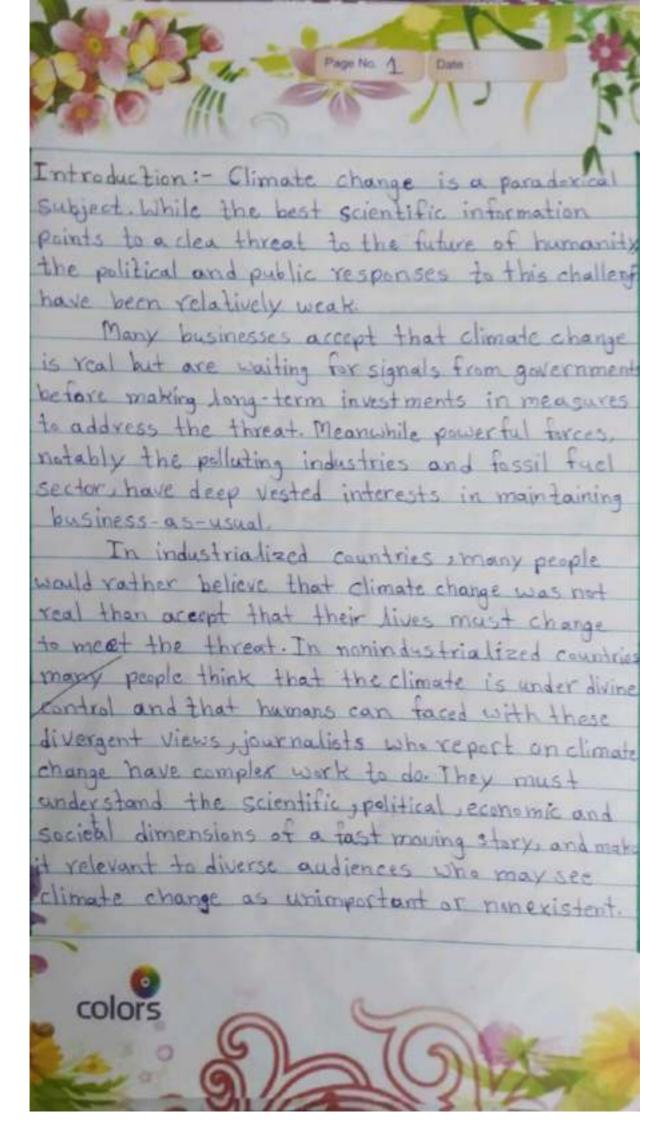
Name : Bhogashae Anil Sarkale . Class & Div : Page No : Page No : 1
Roll No : 125 Subject : Topic : Date :
Ecosystem
LC9575TEIL
What is an Ecosystem?
An ecosystem include all of the living things plant animal and organism), in given area interacting with each other, and also with their non-living environments. (wheather, earth, sun, soil, climate, atmosphere), toosystem are the Foundation of the Biosphere determine the health of the entire earth system.
Ecosystem simply means ecological system Ecology is the study of ecosystem
In an ecosystem, each organism has it own role to play: - consider a small puddle at the back of your home, in it may find all sorts of living
things, from microorganism to insect and plant. These may depend on non-living things like
water, sunlight, turbulence in the puddle.
Temperature, atmospheric Pressure and even nutr.
ient in the water for life.
This very complex, wonderful interaction of
living things and their environment has been the
of corbon and nitrogen.
and mirroger

Anytime a stranger or external factor such









Name :- Gopal Vijay Bazi

Subject :- Envisament

Roll no :- 225

Date :- 11 /4/2023

Oloss :- F.Y.B. Com , Second ye Sem

Oriotale 3013

पृथ्वीवरील विशाल जीवसंहतीचे लहान एफा, परिसंस्था ही संज्ञा पार (भोवतालचे) हा उपमर्श संस्था या शब्दाला जोडून तथार झालेली आहे. परिसंस्थेत सजीव (वजस्पती पाणी आणी म्युमजीव) आणी त्यांच्या पर्यावरणातील अजीवक घटक (ह्या, पाणी स्थानी) एकत्र शहतात आणी ते एकभेकांवर अवलंबून अमतात

पश्चिम्स्योत जे हाटक अभगात त्यांना एकार्जन ग्रहण्या -माठी स्पक्षम अभग अभगे आणी निच्यान स्वयावकासाची क्षामा अभगे. कोणत्याही पार्वसंस्थात स्वयावक साजीव आणी सालीव - पर्यावरण अगा आंतर्राक्र्या न्यापक स्नर्यावर हाइन येन अभगात त्यामुळे परिसंस्थीण विस्तार केवहाही असू याकतो काही पार्वसंस्था नेस्पर्विक प्रदेशाएवह्या विशाल तर काही पार्वसंस्था नदी. नके, वने अभा लहान विस्ताराच्या अस्तात.

परिभागश्चेतील अक्षा घटकांचे टळक पोन गट पडाता : (१) अजीविक (२) जीविक

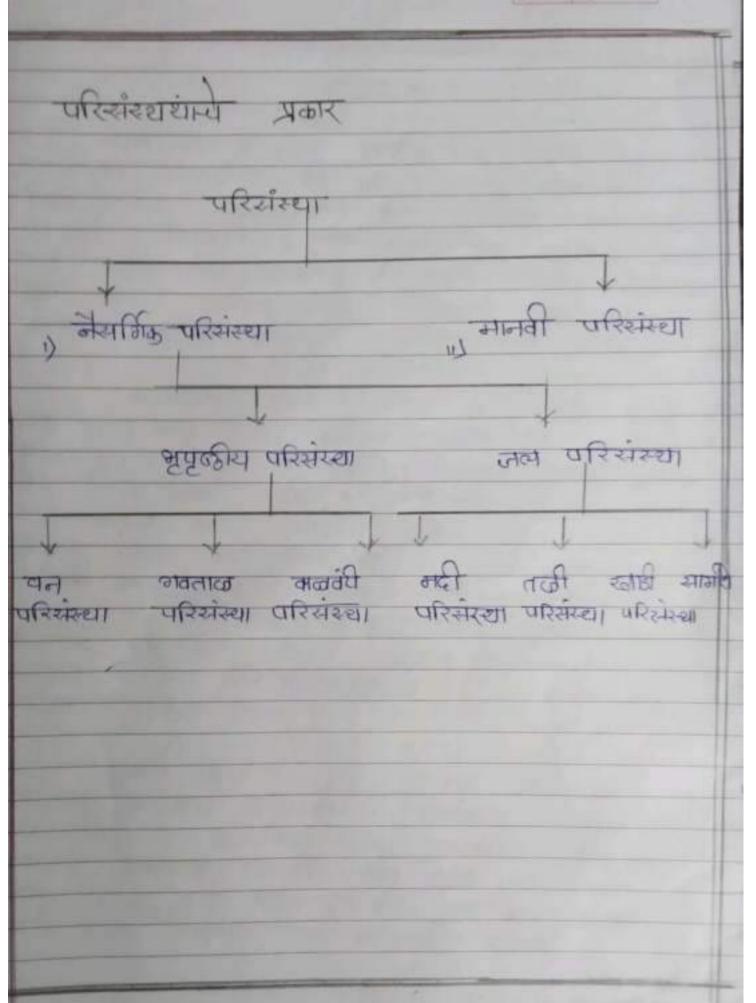
(१) अर्पविक घरकांन ह्वा. पाणी . भूदा , खडक इ. भौतिक आणी रामायानक घरकांचा व्यमावेश होतो. या घरकांच्या प्रभाणात घदक झाल्यास त्यांचा स्तरीवांच्या गणभंश्येवश् विपनीत परिणाभ होतो. व्यमीवाच्या प्रत्येक प्रजातीभद्ये अर्पविक घरकांचा परिणाभ व्यक्त करण्याची एक अर्यादा असते

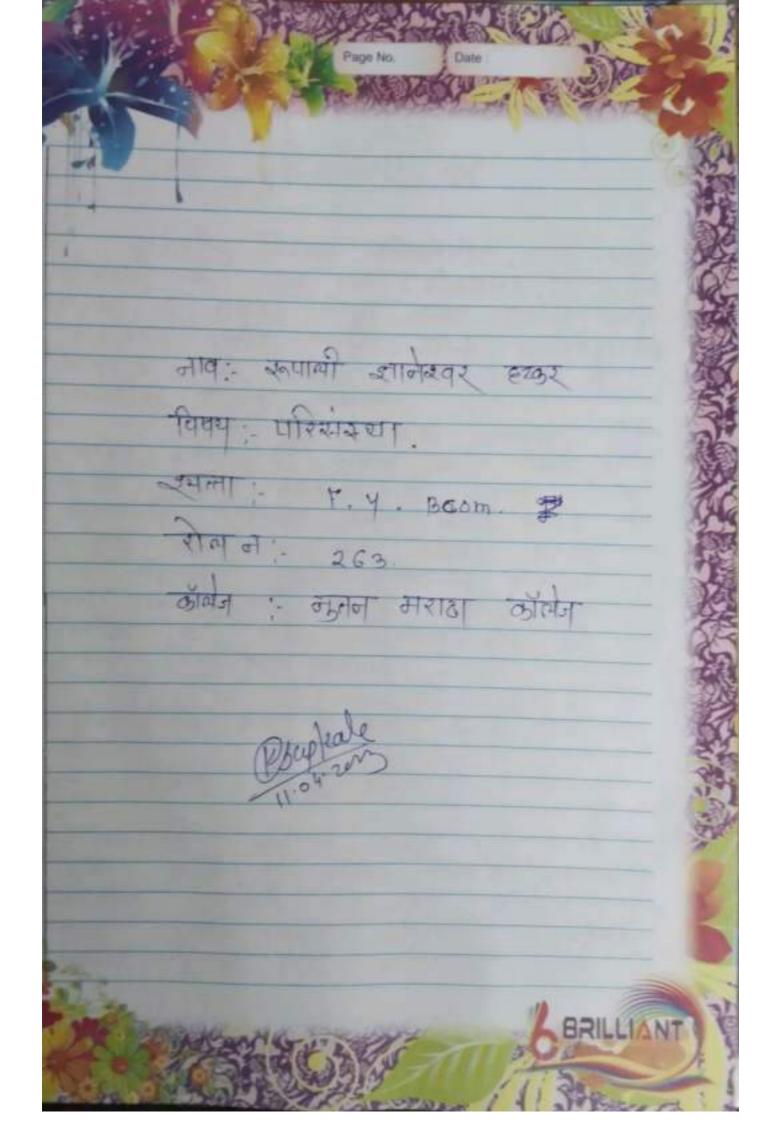
NUTAN MARATHA

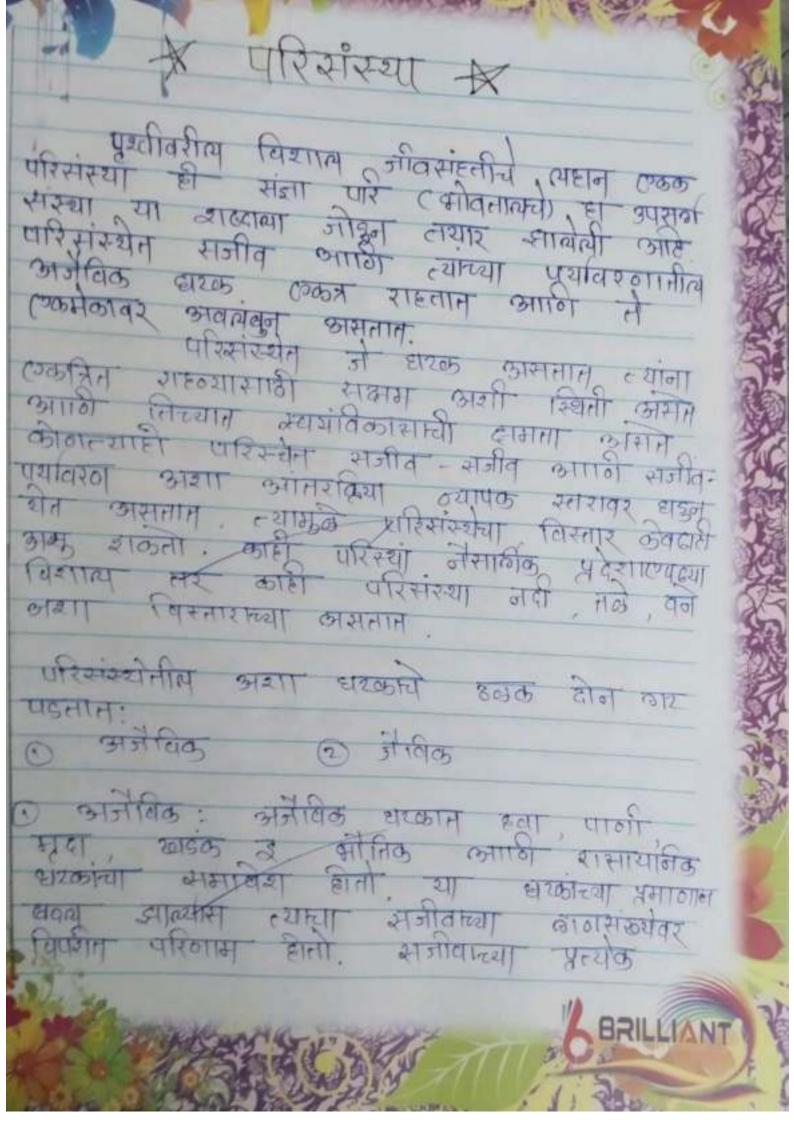
NAME - DTVYA SANTOSH PARDESHI ROLL NO: -284

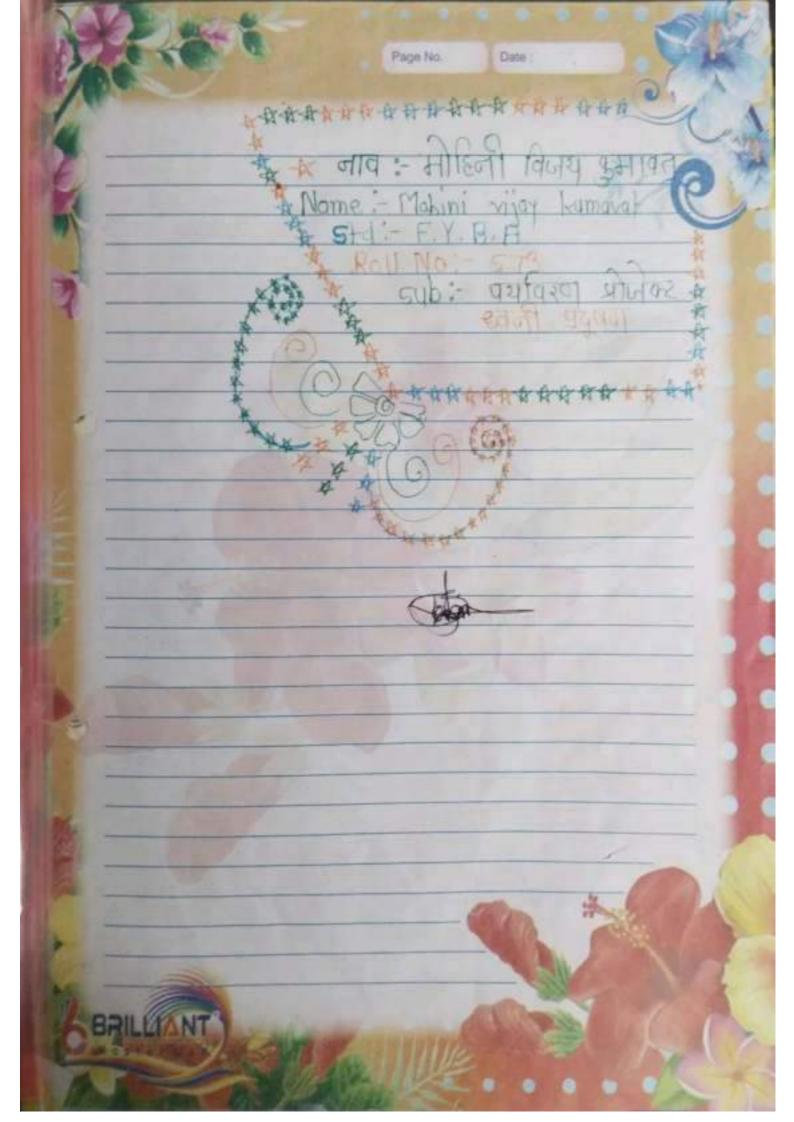
STD: - FY BCOM

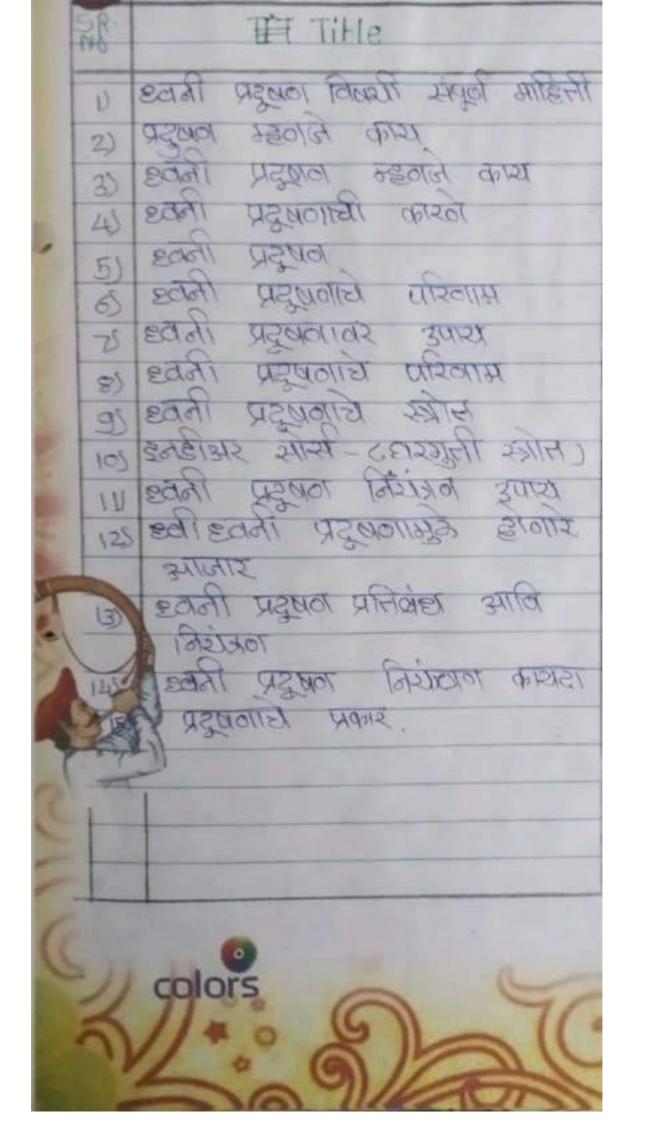
SUBJECT :- ENVIRONMENT











Name :- Annbar Grenesh memset

class :- Fy. BA

Rall No :- 633

Subject !-

Project Name: - Noise Pollution (Earl X590T)

School (college Name: - Norton moratha callege Jalgaon



CIASSMASS

अन्मक्षा विषय

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2)	विषयाचे सहत्व	
	प्रकल्याची- उपिटेंट	
4)	अ००१प नगरीपरवती-	
5	EAUL AMOUTER TORES	
6]	ह्मान भ्रम्वाम्य परिवास	1
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31	इसकी प्रदेवा थियम	
2)	निशिश्तेन	
10	विश्लेषण	
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13	YOUR SHEATH	

