

1.3.3 Internship Certificate/Project Work Completion Certificate of Students



B. Sc. Industrial Chemistry Third Year (Certificate - 10)

2020-21

BC96364

SWAMI RAMANAND TIRTH MARATHWADA UNIVERSITY  
NANDED.

DAYANAND SCIENCE COLLEGE, LATUR.



**CERTIFICATE**

This is certify that **Miss Mhetre Rutuja Anil** has successfully completed the project entitled "Sulfuric Acid" which is created out by the candidate for project in department of industrial chemistry of Dayanand Science College, Latur under my supervision.

*[Signature]*  
Examiner  
*[Signature]*  
Examined

*[Signature]*  
Principal  
Dayanand Science College  
LATUR 413512

*[Signature]*  
Guide & HOD  
Dr. A. M. Chougale  
Dept. of Industrial Chemistry  
Dayanand Science College  
LATUR

1 | Page

2020-21

BC96366

Seat No. BC96366

Swami Ramanand Treeth Marathwada University, Nanded.



Dayanand Education Society's  
DAYANAND SCIENCE LATUR.

### CERTIFICATS

This is to certify that the project entitled "ACETONE" has been carried out by **Pardeshi Prashant Babu** under my guidance in partial fulfillment of the degree Bachelor Science of SRTMU, Nanded during the academic year 2020 -2021

*D.A.M. Chougule*  
Guided By

Dr.A.M.Chougule

Department of Industrial  
Chemistry

*[Signature]*

Principal  
Dayanand Science College  
LATUR 413512

*Examined*  
*[Signature]*

*D.A.M. Chougule*  
H.O.D

Head  
Dr.A.M.Chougule  
Dept. Of Industrial Chemistry  
Dayanand Science College  
Department of Industrial  
Chemistry  
LATUR

2020-21

Seat No. BC96367

Swami Ramanand Treeth Marathwada University, Nanded.



Dayanand Education Society's  
DAYANAND SCIENCE LATUR.

### CERTIFICATS

This is to certify that the project entitled "BENZENE" has been carried out by **Patil Dinesh Surendra** under my guidance in partial fulfillment of the degree Bachelor Science of SRTMU, Nanded during the academic year 2020 -2021

*Patil Dk*  
Guided By

Dr.A.M.Chougule

Department of Industrial  
Chemistry

*Patil Dk*  
H.O.D

Dr.A.M.Chougule

Head  
Department of Industrial Chemistry  
Dayanand Science College  
LATUR

*J.M.*  
Principal  
Dayanand Science College  
LATUR 413512

*Examined*  
*[Signature]*

2020-21

Seat No. BC96367

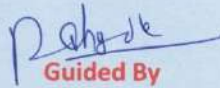
Swami Ramanand Treeth Marathwada University, Nanded.



Dayanand Education Society's  
**DAYANAND SCIENCE LATUR.**

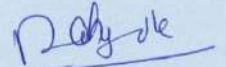
## CERTIFICATS

This is to certify that the project entitled "BENZENE" has been carried out by **Patil Dinesh Surendra** under my guidance in partial fulfillment of the degree Bachelor Science of SRTMU, Nanded during the academic year 2020 -2021

  
Guided By

Dr.A.M.Chougule

Department of Industrial  
Chemistry

  
H.O.D

Dr.A.M.Chougule

Head  
Department of Industrial Chemistry  
Dayanand Science College  
LATUR



Principal  
Dayanand Science College  
LATUR 413512



2020-21

Seat no- **BC96486**

**THE SWAMI RAMANAND TIRTH MARATHAWADA UNIVERSITY  
NANDED**



# Certificate

## Dayanand Science College, Latur

This is to certify that Mr. Sartape Shyam k has successfully completed the project entitled **polyethylene** which is an work carried out by candidate for project in department of IC of Dayanand Science College Latur under my supervision

Examined  
*[Signature]*

*[Signature]*  
Guided by

**Dr A.M Chaugule**

**Department of Ind Chemistry**  
Head  
Dept. Of Industrial Chemistry  
Dayanand Science College  
LATUR

*[Signature]*

Principal  
Dayanand Science College  
LATUR 413512

2020-21

BC 96352



Swami Ramanand Teerth Marathwada University, Nanded

**Dayanand science College, Latur**



## CERTIFICATE

This is to certify that **Mr. Ghar Omkar Narhari** has completed the design thesis on manufacture of acetic acid under may supervision for the 6<sup>th</sup> semester of B.Sc Degree in Year 2021

Examiner

Guide & HOD

**Dr. A.M. Chougule,**

Department of industrial chemistry

Head

Dept. Of Industrial Chemistry

Dayanand Science College

LATUR

Principal  
Dayanand Science College  
LATUR 413512

2020-21

Exam seat No:-BC96353



Swami Ramanand Teerth Marathwada University, Nanded

DAYANAND SCIENCE COLLEGE LATUR

Department of Industrial Chemistry

## CERTIFICATE

This is to certify that Mr.Rohi Ajinkya Shivaji of class B.Sc III Year has satisfactorily completed the projects entitled "Oxygen Gas" which is an carried out by the candidate for project in department of Industrial Chemistry of Dayanand science College, Latur under my supervision during the academic year 2020-21.

Guide by

Dr.A.M.Chougule

Department Of Industrial Chemistry

Principal

Dayanand Science College  
LATUR-413512

H.O.D

Dr.A.M.Chougule

Department Of Industrial Chemistry

Head

Dept. Of industrial Chemistry  
Dayanand Science College  
LATUR

2020-21

BC 96360

Swami Ramanand Teerth Marathwada university, Nanded

## DAYANAND SCIENCE COLLEGE, LATUR



"अ नो भद्रा क्रतवो यानु विश्वतः"

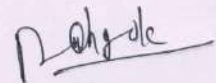


सत्यं धर्मस्य धर्मो यथायथा विचार्यते, तथेव

### Certificate

This is certify that **Miss. Jadhav Tanuja Tukaram** has completed  
The design thesis on Manufacture of **Methyl Alcohol** under my supervision  
for the **6 th SEMESTER** of BSc degree in year **2020-2021**.

  
Examiner

  
Guide and HOD

DR.A.M. Chaugule sir  
**Head**  
Dept. Of Industrial Chemistry  
Dayanand Science College  
Dept of Industrial Chemistry  
LATUR

  
Principal  
Dayanand Science College  
LATUR 413512



2020-21

Seat No:- BC96361

Swami Ramanand Teerth Marathwada University-Handed

Dayanand Science College, Latur



## CERTIFICATE

This is to certify that **Ms.kale Mayuri Anil** has successfully completed the projects entitled "**Thesis Of Cement**" which is carried out by the candidate for project in department of industrial chemistry of **Dayanand Science College, Latur** under my supervision.

*Dr. A. M. Chougule*  
Guided By

Dr. A. M. Chougule  
Head  
Dept. Of Industrial Chemistry  
Dayanand Science College  
LATUR

*[Signature]*  
Principal  
Dayanand Science College  
LATUR 413512

*Dr. A. M. Chougule*  
H.O.D

Dr. A. M. Chougule  
Head  
Dept. Of Industrial Chemistry  
Dayanand Science College  
LATUR

Exam seat No:-BC96355




Swami Ramanand Teerth Marathwada University, Nanded

**DAYANAND SCIENCE COLLEGE LATUR**

Department of Industrial Chemistry

## **CERTIFICATE**

*This is to certify that Mr. Bhosale Ganesh Ramesh of class B.Sc III Year has satisfactorily completed the projects entitled "Formaldehyde Compound" which is carried out by the candidate for project in department of Industrial Chemistry of Dayanand science College, Latur under my supervision during the academic year 2020-21.*



Guide by

**Head**

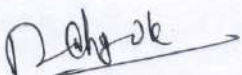
Dept. Of Industrial Chemistry  
Dayanand Science College  
**LATUR**

Department Of Industrial Chemistry



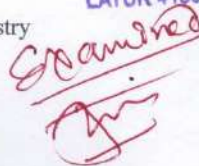
**Principal**

Dayanand Science College  
LATUR 413512

  
H.O.D

Dr.A.M.Chougule

Department Of Industrial Chemistry



**Head**  
Dept. Of Industrial Chemistry  
Dayanand Science College  
**LATUR**

# M. Sc. Organic Chemistry Second Year (Certificate – 10)



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED**



*CERTIFICATE*

DAYANAND SCIENCE COLLEGE, LATUR

This is to certify that **MR. BANSODE MAHESH BABURAO** has successfully completed the project entitled which is an original work carried out by the candidate for project **"SYNTHESIS OF CHALCONE AND THIOPYRIMIDINE"**

In Department of chemistry in DAYANAND SCIENCE COLLEGE, LATUR under my supervision.

*R. S. Dargad*  
Principal

Dr. J.S. Dargad  
PRINCIPAL  
Dayanand Science College  
LATUR

*R. S. Shinde*  
GUIDE

Dr. R.S. SHINDE.

Department of Chemistry

*S. Y. P.*  
H.O.D.

Asst. Prof. Sarnikar Y. P.

Department of Chemistry  
U.G. In Chemistry  
Dayanand Science College  
LATUR

*Examined  
Prof. Shinde*

## CERTIFICATE


Certified that the work presented in this thesis entitled *SYNTHESIS OF SCHIFF'S BASES FROM SALICYLALDEHYDE AND AROMATIC ANILINES* is based on the authentic record of project done by Miss. DAWANGAVE MONIKA BALAJI Under guidance and supervision of .ASST. Prof . J. A. ANGULWAR at the Department of Chemistry ,Dayanand Science college Latur under the Swami Ramanand Tirth Marathvada University, Nanded during the academic year 2020-2021.

It is certified that of correction / suggesation indicated for Internal Assessment have been incorporated in the project report. The project report has been approval as it satisfies the academic requirement inrespect of project work prescribed for the said degree.

Place:Latur

Date 15/07/2021

Examined.  
Full Stamp

  
16/7/2019  
Dr. J.A. ANGULWAR





Asst. Prof.  
Project Guide.

Dr. J.S. Dargad.  
Principal  
Dayanand Science College  
DSC Latur  
Latur 413512  
Principal.

Dr. Y.P. Sarnikar.  
Asst. Prof.  
HEAD  
HOD, DSC Latur  
Department of Chemistry,  
Dayanand Science College,  
LATUR



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY ,NANDED**



**CERTIFICATE**

**DAYANAND SCIENCE COLLEGE,LATUR**

This is certify that **Miss.KOHALE SHILPA SUDARSHAN** has successfully completed the project entitled which is an original work carried out by the candidate for project **SYNTHESIS OF PYRIMIDINE DERIVATIVE FROM DIFFERENT CHALCONE BY USING THIOUREA** in Department of chemistry in **DAYANAND SCIENCE COLLEGE,LATUR** under my supervision.

*R.* →

**PRINCIPAL**  
**Dayanand Science College**  
**LATUR**

**DR.J.S.DARGAD SIR**

*Examined*  
*Prof. Kamale*

**DAYANAND SCIENCE COLLEGE,LATUR**

*[Signature]*

**H.O.D**

**Prof.Y.P.SARNIKAR SIR**  
**HEAD**  
**DEPARTMENT OF CHEMISTRY**  
**Dayanand Science College**  
**LATUR**

*[Signature]*

**GUIDE**

**PR.B.D KAMALE SIR**  
**DEPARTMENT OF CHEMISTRY**  
**D.S.C LATUR**



## CERTIFICATE



### DANYAWAD SCIENCE COLLEGE, LATUR

This is to certify that **MR. JADHAV CHANDRASHEKHAR GUNVANT** has successfully completed the project entitled which is an original work carried out by the candidate for project "**SYNTHESIS OF CYCLIC THIOCARBONATE FROM THIIRANES AND CS<sub>2</sub> WITH SILICA IMMOBILIZED CATALYSTS**" In department of chemistry in DANYAWAD SCIENCE COLLEGE, LATUR under my supervision

H.O.D

**Dr. Sarnikar Y.P.**

**HEAD**

**Department of Chemistry,  
Dayanand Science College  
LATUR**

Principal.

**Dr. Dargad J.S.**

**PRINCIPAL**

**Dayanand Science College  
LATUR**

Guide

**Dr. R.S. Shinde**

Department of chemistry

*Examined.  
Prof. Hemant*


# CERTIFICATE


**Certified that the work presented in this thesis**  
**entitled "Synthesis of Chalcone and its Derivative and its Application" is**  
**based on the authentic record of project done by Miss.**  
**Darfalkar Rupali Ramrao (Seat No. ) under guidance**  
**and supervision Prof. J.A. Angulwar sir at the Department of**  
**Chemistry, Dayanand Science college Latur under the Swami**  
**Ramanand Tirth Marathvada University, Nanded during the**  
**academic year 2020-2021.**


**It is certified that of correction / suggestion indicated for**  
**Internal Assessment have been incorporated in the project**  
**report. The project report has been approval as it satisfies the**  
**academic requirement in respect of project work prescribed**  
**for the said degree.**

**Place: Latur**

**Date: 15 / 07/2021**

  
**Dr. Y.P. Sarnikar**  
**HOD, DSC, Latur**  
**U.G. in Chemistry**  
**Dayanand Science College**  
**LATUR**  
**Examiner - I**

  
**Prof. J.A. Angulwar sir**  
**Project Guide**

  
**Dr. J.S. Borgad**  
**Princip, DSC**  
**Dept. of Mathematics**  
**Dayanand Science College**  
**Latur**  
**Examiner - II**

*Examined.  
Prof. Kamote*



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED



CERTIFICATE

DAYANAND SCIENCE COLLEGE,

LATUR

This is to certify that **MAHADEV** has successfully completed the project entitled which is an original work carried out by the candidate for project "An efficient one-pot synthesis of Tetrahydrobenzo[*a*]xanthene-11-one and diazabenz[*a*]anthracene-9-11-dione derivatives under solvent free condition"

In Department of chemistry in DAYANAND SCIENCE COLLEGE LATUR under my supervision.

*n. →*  
Principal  
PRINCIPAL  
Dr. Dargad, J. S.  
Dayanand Science College  
LATUR

*[Signature]*  
H.G.D.

*[Signature]*  
GUIDE

Asst. Prof. **HEAD** Dr. Y. P. Sarnikar  
P.G. & U.G. in Chemistry  
Department of Chemistry  
Dayanand Science College  
LATUR

Dr. Y.P.SARNIKAR SIR  
Department of Chemistry

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

*Examined.  
Prof. [Signature]*




## CERTIFICATE


This is to certify that the project report entitled "*SYNTHESIS OF OCTAHYDRAQUINAZOLINONE DERIVATIVE VIA BIGINELLI REACTION*" which is being submitted with of the project work completed by **Mr.SHINDE AMOL KISHANRAO** for the award of the degree of master of science in organic chemistry is based on the result of experiments carried out by her under my surpervision. The dissertation or part there of has not been previously submitted for any other degree.

Place :Latur

Date :- 30/07/2021

  
**Dr.Y.P. SARNIKAR**  
HEAD  
Head of department of chemistry  
Dayanand Science College  
LATUR

  
**Prof. Munde Manisha**  
supervisor / Guide

  
**Dr. J.S. Dargad**  
PRINCIPAL  
Dayanand Science College  
LATUR  
DSC,Latur

Examined  
Prof. 

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED







स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नानंद.

DAYANAND SCIENCE COLLEGE LATUR



CERTIFICATE

This is to certify that **Miss.Chavan Poonam Ranjeet** has successfully completed the project entitled which is an original work carried out by the candidate for the project - "**SYNTHESIS OF SUBSTITUTED 1,3,4-THIADIAZOLES** " FROM THE SUBSTITUTED AROMATIC ACIDS in the Department of Chemistry in DAYANAND SCIENCE COLLEGE LATUR under my supervision.

4.	Source of Abstract	PRINCIPAL DR.J.S DARGAD SIR DAYANAND SCIENCE COLLEGE LATUR	 15/7/2024
	Medical	DAYANAND SCIENCE COLLEGE LATUR	PROJECT GUIDE
H.O.D DR. Y.P SARNIKAR SIR Dept. of Chemistry Dayanand Science College, Latur		 Head Dept. of Mathematics, Dayanand Science College, Latur	Prof. J.A. Angulwar sir Dept. of Chemistry Dayanand Science College ,Latur
 U.G. in Chemistry, Dayanand Science College			

Examined.  
Prof. J.A. Angulwar



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED



CERTIFICATE

DAYANAND SCIENCE COLLEGE, LATUR

This is to certify that Miss. **DEVKE JAYSHREE UTTAMRAO** has successfully completed the project entitled which is an original work carried out by the candidate for project **"Transition Metal Complexes of Dehydroacetic acid (DHA) schiff Base"**.

In Department of chemistry in DAYANAND SCIENCE COLLEGE, LATUR under my supervision.

*n*   
Principal

Dr. Dargad, J. S.  
Principal  
Dayanand Science College  
LATUR

H.O.D. 

Asst. Prof. Sarnikar Y. P.  
**HEAD**  
Department of Chemistry  
Dayanand Science College  
LATUR

GUIDE 

Dr. S.S. Mahurkar.  
Department of Chemistry

*Examined.*  



# CERTIFICATE

Certified that the work presented in this thesis entitled *Synthesis of coumarin by Pechman reaction* is based on the authentic record of project done by **MR.MAHADEV PRABHAKAR DESHMUKH** Under guidance and supervision of **.ASST. Prof . J. A. ANGULWAR** at the Department of Chemistry ,Dayanand Science college Latur under the Swami Ramanand Tirth Marathvada University, Nanded during the academic year 2020-2021.


It is certified that of correction / suggestion indicated for Internal Assessment have been incorporated in the project report. The project report has been approval as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Place:Latur


Date15/07/2021


  
15/7/2021  
J.A.ANGULWAR

Asst.Prof.  
Project Guide.

  
Dr.J.S.Darga  
Dayanand Science College  
LATUR 413512

DSC,Latur.  
Principal.

Examined  
Prof. 

  
Dr. Y.P.Sarnikar.

Asst Prof.  
HEAD  
P.T.D.DSC, Latur  
Dayanand Science College  
LATUR

Dayanand Education Society's

**DAYANAND COLLEGE OF SCIENCE, LATUR.**



P.G. Department of Microbiology

### CERTIFICATE

This is to certify that the project report entitled "**Molecular treatment to treat the infection of *Pseudomonas aeruginosa***" is a bonafide record of study successfully carried out by **Mr. Warad Unmesh Mallikarjun** in partial fulfillment for the award of Master's Degree in the science of microbiology from "Swami Ramanand Teerth Marathwada University, Nanded." During the academic year 2020-2021 at Dayanand Science College, Latur.

Dr. R.A. More.

Project Guide

Dr. R.A. More.

HEAD

Department of Microbiology  
Dayanand Science College  
LATUR- 413512  
Of Microbiology

Dr. Dargad I.S.

Principal

D.S.C.L.

Principal

Dayanand Science College  
LATUR 413512

Examiner  
QMB-1



Swami Ramanand Teerth Marathwada University, Nanded

Dayanand Education Society

CERTIFICATE

Certified that the project work on the "Assessment of Evolution of Cancer treatment therapies" Carried out by miss. Shinde Shubhangi Sharadrao bonafied student of dayanand science college, latur of m.sc. second year of the Swami Ramanand Teerth Marathwada University, Nanded during the year 2020- 2021

.It is certified that all corrections/suggestions indicated for internal assessment have been in corporate in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

  
Miss S.S Dhutekar.

  
PRINCIPAL  
Dr. Dargad J.S  
Dayanand Science College  
Principal, DSCI  
LATUR

  
Head of the Department

Dr. R.A More  
HEAD  
Department of Microbiology  
Dayanand Science College  
LATUR- 413512

Examiner  




Swami Ramanand Teerth Marathwada University, Nanded

Dayanand Education Society

### CERTIFICATE

Certified that the project work on the "Role of Surfactant Proteins in COVID-19 Disease" "Carried out by miss. Deshmukh Rupali Annasaheb bonafied student of dayanand science college, latur of m.sc. second year of the Swami Ramanand Teerth Marathwada University, Nanded during the year 2020- 2021. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

Mrs. S. S. Dutekar

PRINCIPAL  
Dayanand Science College  
LATUR

Head of The Department  
HEAD  
Department of Microbiology  
Dayanand Science College  
LATUR- 413512

Dayanand Education Society's  
**DAYANAND SCIENCE COLLEGE, LATUR**



"अ नो भद्रा क्रतवो यत्नु विश्वतः"

**P.G.Department Of Microbiology**

**CERTIFICATE**

*This is Certify that the project report entitled "**Methicillin Resistance Staphylococcus aureus**" is bonafide record of study successfully carrird out by **Pathan Arbaz khan Manzoor khan** in partial fulfilment for the award of Master's Degree in the Science of Microbiology from "Swami Ramanand Teerth Marthwada University Nanded." During academic Year (2020-2021) at Dayanand Science College Latur.*

**Dr. More R.A.**  
(Project Guide)

**Dr. More R.A.**  
**HEAD**  
Department of Microbiology  
Dayanand Science College  
LATUR- 413512  
**Of Microbiology**

**DSCL**

**Dr. Dargad J.S**  
**Principal**  
**PRINCIPAL**  
**DSCL**  
Dayanand Science College  
**LATUR**

*Examiner*



Dayanand Education Society's

**DAYANAND COLLEGE OF SCIENCE ,LATUR.**



P.G. Department of Microbiology

**CERTIFICATE**

*This is to certify that the project report entitled **“Root Endophytes as a Plant Growth Promoter”** is a bonafide record of study successfully carried out by **Mr.Sayed Sohail Ayub Quadri** in partial fulfillment for the award of Master's Degree in the science of microbiology from “Swami Ramanand Teerth Marathwada University, Nanded.” During the academic year 2020-2021 at Dayanand Science College, Latur.*

Dr. R.A. More.

Project Guide

Dr. R.A. More.  
HEAD

Department of Microbiology  
Dayanand Science College  
LATUR- 413512  
of Microbiology. DSCL.

Dr. Dargad J.S.  
PRINCIPAL

Dayanand Science College  
LATUR

Examiner



Swami Ramanand Teerth Marathwada University, Nanded


Dayanand Education Society


## CERTIFICATE

Certified that the project work on the “**comparative study of Hand sanitizer effective on microorganisms**” Carried out by **miss.Deshmukh Dipali Annasaheb** bonafied student of dayanand science college, latur of m.sc. second year of the **Swami Ramanand Teerth Marathwada University, Nanded** during the year **2020- 2021**

.It is certified that all corrections/suggestions indicated for internal assessment have been in corporate in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

  
Guided by  
Mr. Karale sir

  
PRINCIPAL  
Dr. Dargad J. S.  
Dayanand Science College  
Principal  
LATUR  


  
Head of The Department  
Dr. More R. A.  
HEAD  
Department of Microbiology  
Dayanand Science College  
LATUR- 413512



Swami Ramanand Teerth Marathwada University, Nanded  
Dayanand Education Society

CERTIFICATE

*This is to certify that the project report entitled "Overview: Mucormycosis." is a bonafide record of study successfully carried out by Mr. Vedant Rajeshkumar Varma in partial fulfillment for the award of Master's Degree in the Science of Microbiology from "Swami Ramanand Teerth Marathwada University, Nanded" During the academic year 2020-2021 at Dayanand Science College, Latur.*

Project Guide  
Prof. Shital Patil

Head of the department  
**HEAD**  
Department of Microbiology  
Dayanand Science College  
LATUR-413512

Principle DSCL  
Dr. J. S. Dargad  
**PRINCIPAL**  
Dayanand Science College  
LATUR

Examiners

Dayanand Education Society's

## DAYANAND COLLEGE OF SCIENCE, LATUR



P. G. Department of Microbiology

### CERTIFICATE

**This is to certify that the project report entitled 'Azotobacter as a biofertilizer' is a bonafide record of study successfully carried out by Mr. Warad Rameshwar Vijaykumar in partial fulfillment for the award of Master's Degree in the science of microbiology from "Swami Ramanand Teerth Marathwada University, Nanded." During the academic year 2020-2021 at Dayanand Science College, Latur.**

*Proff. miss. P.A. sonsale.*

Proff. miss. P.A. sonsale.

Project Guide

*Warad Rameshwar Vijaykumar*  
HEAD

Department of Microbiology  
Dayanand Science College  
Latur - 413512

Of microbiology.

DSCL

*Dr. Dargad j. S.*

Dr. Dargad j. S.

principal

DSCL

Principal  
Dayanand Science College  
Latur 413512

*Examiner  
Rameshwar*



## CERTIFICATE

Certificate that the work presented in this thesis entitled "*Structural and Optical Properties of Mn Doped ZnO Thin Films prepared by Spray Pyrolysis Method*" is based on the authentic record of project done by **Miss. More Arti Sambhaji** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

Place: Latur

Date : 02/08/2021

  
GUIDE

Dr. V. D. MOTE  
**Dr. V.D. Mote**  
Research Guide  
Subject : Physics  
S.R.T.M.U. Nanded

  
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Kathwate  
02/08/2021  
BY L.H. Kathwate



## CERTIFICATE

Certificate that the work presented in this thesis entitled "*Structural and Optical Properties of Mn Doped ZnO Thin Films prepared by Spray Pyrolysis Method*" is based on the authentic record of project done by **Miss. Dapke Kanchan Chaitanya** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

**Place: Latur**

**Date : 02/08/2021**

  
**GUIDE**

**Dr. V. D. MOTE**

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**Subject : Physics**  
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*Kathwate*  
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*Mr. L.H. Kathwate*



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Certificate that the work presented in this thesis entitled "*Intrinsic and Extrinsic Doping of ZnO Thin Films*" is based on the authentic record of project done by **Mr. Mahindarkar Ganesh Sanjay** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree..

**Place: Latur**

**Date : 02/08/2021**

  
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**Subject : Physics**  
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Certificate that the work presented in this thesis entitled “*Intrinsic and Extrinsic Doping of ZnO Thin Films*” is based on the authentic record of project done by **Mr. Darshan Rajkumar Deshpande** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

**Place: Latur**

**Date : 02/08/2021**

  
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**Dr. V.D. Mote**  
**Research Guide**  
**Subject : Physics**  
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Certificate that the work presented in this thesis entitled “*Metal Oxide Thin Film for Supercapacitors*” is based on the authentic record of project done by **Miss. Shinde Swati Dinkar** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

**Place: Latur**


**Date : 02/08/2021**

  
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Certificate that the work presented in this thesis entitled “*Metal Oxide Thin Film for Supercapacitors*” is based on the authentic record of project done by **Miss. Shinde Meera Nanasaheb** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

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Certificate that the work presented in this thesis entitled "*Rare Earth Oxide Thin Films and its Applications*" is based on the authentic record of project done by **Miss. Patil Mohini Mahesh** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

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## CERTIFICATE

Certificate that the work presented in this thesis entitled “*Rare Earth Oxide Thin Films and its Applications*” is based on the authentic record of project done by **Miss. Giri Archana Dhanraj** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

**Place: Latur**

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Certificate that the work presented in this thesis entitled “*Thin Films Metal Oxides-Review*” is based on the authentic record of project done by **Miss. Radhika Pramod Deshmukh** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

Place: Latur

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Certificate that the work presented in this thesis entitled "*Thin Films Metal Oxides-Review*" is based on the authentic record of project done by **Miss. Ashwini Ashok Nagargoje** under the guidance of **Dr. V. D. Mote** at the department of Physics, Dayanand Science College, Latur under the Swami Ramanand Teerth Marathwada University, Nanded during the academic year 2020-21. It is certified that the correction / suggestions indicated for internal assessment have been incorporated in the project report. The project report has been approved as it satisfies the academic requirements in report of project work prescribed for the M. Sc. (Physics) degree.

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**Date : 02/08/2021**

  
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**Dr. V.D. Mote**  
**Research Guide**  
**Subject : Physics**  
**S.R.T.M.U. Nanded**

  
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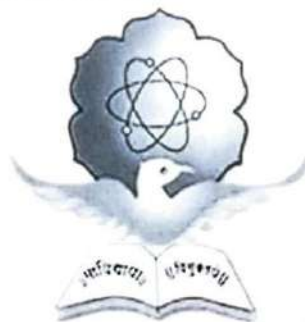
**Dr. L. V. THAKRE**  
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## Dayanand Science College, Latur

Academic Year 2020-21

Project Report

On

### "Interpretation of Electrocardiogram On Young"

Submitted By

Mr. Pawar Vishwanath Narayan

Class- M.Sc. (BT) SY

Exam Seat. No- DB43384

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## Dayanand Science College, Latur

Academic Year 2020-21

Project Report

On

### “Small Scale Production Of Vermicomposting And Its Physico Chemical Properties And Its Effect On Germination Rate Of Plant”

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## Dayanand Science College, Latur

Academic Year 2020-21

Project Report

On

### “Formation of Acetic acid by using cyano acetic acid and acetic anhydride”

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## Dayanand Science College, Latur

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On

### "Studies on Antimicrobial Activity And Phytochemical Analysis Of Leaf Extracts Of Medicinal Fruit Plants"

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## Dayanand Science College, Latur

Academic Year 2020-21

Project Report

On

### "Biotechnological processes in microbial amylase production"

Submitted By

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## Dayanand Science College, Latur

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Project Report  
On

### "The Effect of Vermicompost, Cocopeat, Sand and Soil to Enhance Productivity of Vegetables"

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Ms. Aboli Anil Shendarkar

Class- M.Sc. (BT) SY

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Examiner

# M. Sc. Mathematics Second Year (Certificate - 6)

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LATUR

Department of mathematics

During Academic Year : 2020-2021

Roll No :- 3060

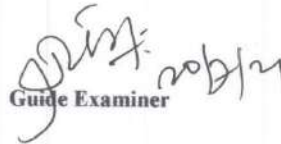
## CERTIFICATE

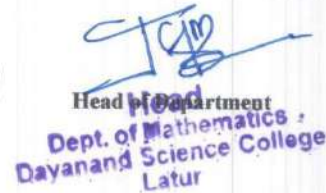
This is to certify that Miss. Sarwade Sonali Shahaji M.Sc.IIInd Year has satisfactory completed the project work entitled "*Vector Space*" laid down in the regulation of Swami Ramanand Teerth marathwada University, Nanded.

Exam Seat No :- 2845570

Exam Date :- 20/2/21

  
Project

  
Guide Examiner

  
Head of Department  
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LATUR

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This is to certify that **Miss. Patil Priti Suresh** Class M.sc SY, has satisfactory completed the project work entitled "Introduce The Methods Of Linear Functional Analysis" laid down in the regulation of swami Ramanand Teerth Marathwada University, Nanded.

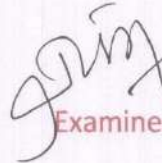
During Academic Year :- 2020-21 Roll No :- 3052


Exam Seat No :- DB45561

Exam Date :- 20/3/21

  
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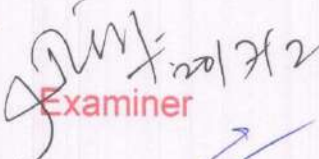
This is to certify that **Miss.Poul Priti Balalsaheb** Class M.sc SY, has satisfactory completed the project work entitled Vector Space laid down in the regulation of Swami Ramanand Teerth Marathwada University, Nanded.


During Academic Year :-2020-21 Roll No:- 3057


Exam seat no:- DB45566

Exam date:- 20/3/21

  
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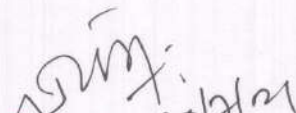
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During Academic Year :-2020-21 Roll No:- 3053

Exam seat no:- DB45562

Exam date:- 20/7/21

  
Guid

  
Examiner 20/7/21

  
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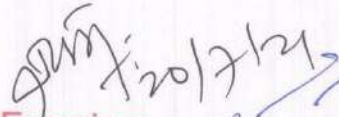
This is to certify that **Miss. Pandhare Gayatri govind** Class M.sc SY, has satisfactorily completed the project work entitled Application of Mathematics Ecommerce and online banking laid down in the regulation of Swami Ramanand Teerth Marathwada University, Nanded.

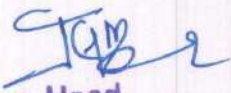
During Academic Year :-2020-21 Roll No:- 3049

Exam seat no:- DB45559

Exam date:- 20/7

  
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**Roll No :- 3044**

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This is to certify that **Miss. Pratiksha Sunilrao Mengshette** class M.sc. II<sup>nd</sup> year has satisfactory completed the project work entitled "**Hilbert Transform**" laid down in the regulation of Swami Ramanand Teerth Marathwada University, Nanded.

**Exam Seat No.:- 1845334**

**Exam Date :- 20/7/21**

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