



R. C. Patel Educational Trust's  
**R. C. Patel Arts, Commerce and Science College**  
Shirpur-425405, Karvand Naka, Dist.- Dhule (Maharashtra)  
E-mail - principal@rcpasc.ac.in

**Affiliated to: K. B. C. North Maharashtra University, Jalgaon-425001**

## **Self Study Report (SSR): 2024 (4<sup>th</sup> Cycle)**



**Criteria - 1**  
**Curricular Aspects**

**Key Indicator - 1.3**  
**Curriculum Enrichment**

**Metric No. - 1.3.2 (QnM)**

**Percentage of students undertaking project work/field work/ internships**  
**(Data for the latest completed academic year)**

**Submitted to**  
**National Assessment and Accreditation Council, Bangalore**



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce and Science College**

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563) 299328

E-mail: principal@rcpasc.ac.in

**President**

Hon. Bhupeshbhai Patel

**Principal**

Dr. D. R. Patil

**Date:** 15/06/2024

## Declaration

This is to declare that, the information, reports, true copies of the supporting documents, numerical data etc. submitted in these files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the office record.

This declaration is for the purpose of NAAC accreditation of the HEI for the 4<sup>th</sup> cycle assessment period 2018-19 to 2022-23.

**Place:** Shirpur

**Date:** 15/06/2024

**Dr. Sandip P. Patil**

**IQAC Co-ordinator**

**IQAC Coordinator**

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur, Dist.-Dhule (M.S.) 425405



**Dr. D. R. Patil**

**IQAC Chairman & Principal**

**PRINCIPAL**

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur, Dist.-Dhule (M.S.) 425405



**R. C. Patel Arts, Commerce  
and Science College, Shirpur**

**Project/Field Work  
Sample Certificates**

# 2021 - 2022

## INDEX

<b>Sr. No.</b>	<b>Program Name</b>	<b>Page No.</b>
1.	T. Y. B.Sc. (Physics)	03-22
2.	BCA (Project Work)	23-32
3.	BMS (Project Work)	33-42
4.	MSc-II (Botany)	43-58
5.	MSc-II (Zoology)	59-68
6.	MSc-II (Microbiology) and MSc-II (Biotechnology)	69-74
7.	MSc-II (Organic Chemistry)	75-86
8.	MSc-II (Physics)	87-110
9.	MSc-II (Computer Science)	111-120
10.	Environmental Studies	121-122

A  
Project Report  
On  
“SYNTHESIS AND CHARACTERISATION OF GO PANI AND GO-PANI  
COMPOSITE”

Submitted to



Kavyatri Bahinabai Chaudhari North Maharashtra University, Jalgaon

For the award of the degree

**Bachelor of Science in Physics**

Submitted By

Mr. Mahajan Shubham Dinesh

UNDER THE GUIDANCE OF

Dr.A.M.Patil



Department of Physics

**R. C Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist.– Dhule, Maharashtra.



R. C. Patel Educational Trust's

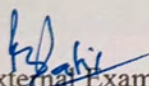
R. C. Patel Arts, Commerce & Science College

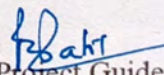
Shirpur, Dist. Dhule.

CERTIFICATE

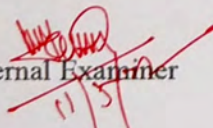
Department of Physics

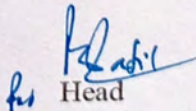
This is to certified that **Mahajan Shubham Dinesh**  
Has satisfactorily carried out project work entitled "**Synthesis  
And Characterization of GO, PANI and GO-PANI Composite**" for the degree of  
B.Sc. in physics as laid down by Kaviyatri Bahinabai Chaudhari  
North Maharashtra University,  
Jalgaon during Academic Year 2021-22.

  
External Examiner

  
Project Guide  
Dr.A.M.Patil

College seal

  
External Examiner

  
Head  
Department of Physics  
R.C.Patel ASC College, Shirpur

A  
Project Report  
On  
**“SYNTHESIS OF Fe<sub>2</sub>O<sub>3</sub> THIN FILMS BY CBD METHOD”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Bachelor of Science in Physics**

Submitted By

**Miss. Patil Pooja Ravindra**

UNDER THE GUIDANCE OF

**Prof.K.M.Patil**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra.**



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce & Science College  
Shirpur, Dist. Dhule (M.S)

**CERTIFICATE**

Department of Physics

This is to certified that **Patil Pooja Ravindra**  
Has satisfactorily carried out project work entitled On  
**"SYNTHESIS OF  $Fe_2O_3$  THIN FILMS BY CBD METHOD"**  
for the degree of B.Sc. in physics as laid down by KBC North Maharashtra  
University,  
Jalgaon during Academic Year 2021-22.

Internal Examiner  
11/5/22

Project Guide  
Prof.K..M..Patil

External Examiner  
11/5/22



Head  
Department of Physics  
R.C.Patel ASC College, Shirpur



# **“Synthesis and Structural Properties of PbS Solid Solution Prepared by Flux Method”**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**BACHELOR OF SCIENCE (B.Sc.)**  
In  
***Physics***  
Submitted  
By

**Patil Priyanka Dilip**

UNDER THE GUIDANCE  
Of

**Dr. A.M.Patil**  
**Prof. A.C.Patil**



**Department of Physics**

**R. C. Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**Affiliated to**



KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,  
JALGAON – 425 001  
2021-22



R. C. Patel Educational Trust's

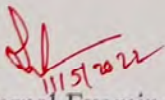
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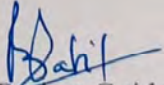
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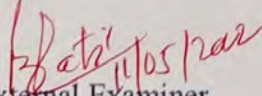
## **CERTIFICATE**

### Department of Physics

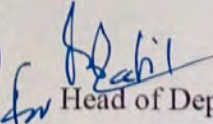
This is to certify that **Patil Priyanka dilip** has satisfactorily carried out project work entitled **Synthesis and Structural Properties of PbS Solid Solution Prepared by Flux Method** for the degree of B.Sc. in Physics as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year 2021-22

  
Internal Examiner

  
Project Guide

  
External Examiner



  
Head of Department

**Single Slit diffraction by LASER**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**BACHELOR OF SCIENCE (B.Sc.)**  
In  
*Physics*

By  
**KASAR PARESH RAMLAL**

UNDER THE GUIDANCE  
Of

**DR. A. M. PATIL**



**Department of Physics**  
**R. C. Patel Arts, Commerce and Science College**  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**Affiliated to**



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,**  
**JALGAON – 425 001**  
**2021-22**

R. C. Patel Educational Trust's

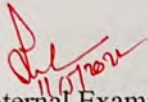
**R. C. Patel Arts, Commerce & Science College**

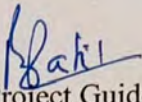
Shirpur, Dist. Dhule. (M.S.)

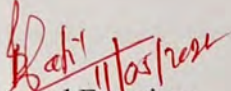
**CERTIFICATE**

Department of Physics

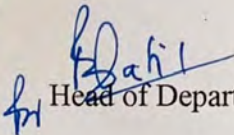
This is to certify that **KASAR PARESH RAMLAL** has satisfactorily carried out project work entitled **Single slit diffraction LASER** for the degree of B.Sc. in Physics as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year 2021-22

  
Internal Examiner

  
Project Guide

  
External Examiner



  
Head of Department

A  
Project Report  
On  
“SYNTHESIS AND CHARACTERISATION OF GO PANI AND GO-PANI  
COMPOSITE”

Submitted to



Kaviyatri Bahinabai Chaudhari North Maharashtra University, Jalgaon

For the award of the degree

Bachelor of Science in Physics

Submitted By

Mr. Patil Pratik Atul

UNDER THE GUIDANCE OF

Dr.A.M.Patil



Department of Physics

R. C Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist.– Dhule, Maharashtra.



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

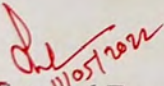
Shirpur, Dist. Dhule.

CERTIFICATE

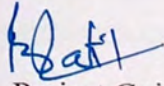
Department of Physics

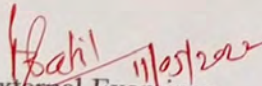
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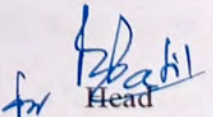
Has satisfactorily carried out project work entitled "**Synthesis  
And Characterization of GO, PANI and GO-PANI Composite**" for the degree of  
B.Sc. in physics as laid down by Kaviyatri Bahinabai Chaudhari  
North Maharashtra University,  
Jalgaon during Academic Year 2021-22.

  
External Examiner



  
Project Guide  
Dr.A.M.Patil

  
External Examiner

  
for Head  
Department of Physics  
R.C.Patel ASC College, Shirpur

A

Project Report

On

**“SYNTHESIS AND OPTICAL PROPERTIES OF Fe<sub>2</sub>O<sub>3</sub> THIN FILMS”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Bachelor of Science in Physics**

Submitted By

**Miss. Chaudhari Sonali Ramesh**

**UNDER THE GUIDANCE OF**

**Prof.K.M.Patil**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra.**

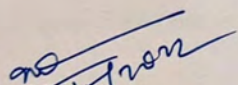


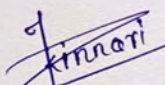
R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce & Science College  
Shirpur, Dist. Dhule (M.S)

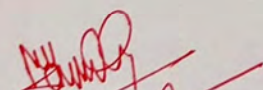
**CERTIFICATE**

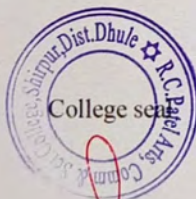
Department of Physics

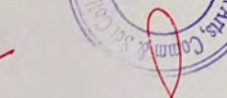
This is to certified that **Miss. Chaudhari Sonali Ramesh**  
Has satisfactorily carried out project work entitled On  
**"SYNTHESIS AND OPTICAL PROPERTIES OF Fe<sub>2</sub>O<sub>3</sub> THIN FILMS"**  
for the degree of B.Sc. in physics as laid down by KBC North Maharashtra  
University,  
Jalgaon during Academic Year 2021-22.

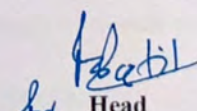
  
Internal Examiner

  
Project Guide  
Prof . K..M..Patil

  
External Examiner  
11/5/22



  
Head  
11/5/22

  
Head  
Department of Physics  
R.C.Patel ASC College, Shirpur



Synthesis and Optical Properties of Lead Sulfide Thin  
Films Grown by Chemically Bath Deposition Method

A

Project Report

Submitted in partial fulfillment

Of

The requirement for the award of the degree

Of

**Bachelor of Science (B.Sc.)**

In

**Physics**

By

**PATIL DIPIKA ASHOK**

UNDER THE GUIDANCE

Of

**Dr. H. B. PATIL**



Department of Physics

**R. C Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra

**Affiliated to**



**KAVIYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERCITY,  
JALGAON – 425 001**

**2021 - 2022**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur, Dist. Dhule (M.S.)

## CERTIFICATE

### Department of Physics

This is certified that **PATIL DIPIKA ASHOK** has satisfactorily carried out project work entitled "**Synthesis and Optical Properties of Lead Sulfide**" for the degree of B.Sc. in physics as laid down by **KAVIYITRI BAHINABAI CHAUDHARI** North Maharashtra University, Jalgaon during Academic Year 2021-2022.

*Dr. H.B. Patil*  
Project guide

Dr. H.B.Patil

*Dr. H.B. Patil*  
Head department

*Dr. H.B. Patil*  
External Examiner



Internal Examiner

A  
Project Report  
On  
“SYNTHESIS AND STRUCTURAL PROPERTIES OF GO PANI AND GO-  
PANI COMPOSITE”

Submitted to



Kaviyatri Bahinabai Chaudhari North Maharashtra University, Jalgaon

For the award of the degree

**Bachelor of Science in Physics**

Submitted By

Miss. Tele Asmita Arun

UNDER THE GUIDANCE OF

Dr.A.M.Patil



Department of Physics

**R. C Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist.- Dhule, Maharashtra.



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

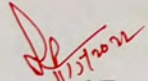
Shirpur, Dist. Dhule.

CERTIFICATE

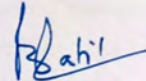
Department of Physics

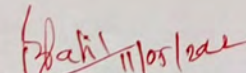
This is to certified that **Teje Asmita Arun**

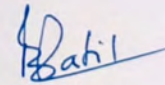
Has satisfactorily carried out project work entitled “**Synthesis  
And Structural Properties of GO, PANI and GO-PANI Composite**” for the  
degree of B.Sc. in physics as laid down by Kaviyatri Bahinabai Chaudhari  
North Maharashtra University,  
Jalgaon during Academic Year 2021-22.

  
Internal Examiner



  
Project Guide  
Dr.A.M.Patil

  
External Examiner

  
for Head  
Department of Physics  
R.C.Patel ASC College, Shirpur

A  
Project Report  
On

**“SYNTHESIS AND OPTICAL PROPERTIES OF PbS THIN FILMS”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Bachelor of Science in Physics**

Submitted By

**Miss. Sonwane Ashwini Gokul**

**UNDER THE GUIDANCE OF**

**Prof.K.R.Pawar**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist- Dhule, Maharashtra.**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule (M.S)

**CERTIFICATE**

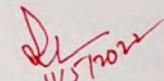
Department of Physics

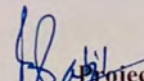
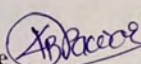
This is to certified that **Sonwane Ashwini Gokul**

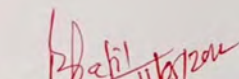
Has satisfactorily carried out project work entitled **“SYNTHESIS AND OPTICAL PROPERTIES OF PbS THIN FILMS”**

for the degree of B.Sc. in physics as laid down by KBC North Maharashtra University,

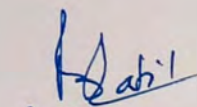
Jalgaon during Academic Year 2021-22.

  
11/5/2022  
Internal Examiner

  
Project Guide   
Dr.A.M.Patil & Prof. K.R.Pawr

  
External Examiner



  
for Head  
Department of Physics  
R.C.Patel ASC College, Shirpur

**A PROJECT REPORT ON**

**“Study of Dielectric Behavior of a Soils at  
Microwave Frequencies ”**

**Submitted By**

**Miss. Dipmala Babulal Patel**

**For**

**T.Y.B.Sc.**

**(Physics)**

**Under the Guidance of**

**Dr. Avinash A. Patil**

**Year – 2021-22**

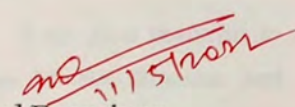
**Department of Physics**

**R.C.Patel Arts, Commerce and Science College, Shirpur.**

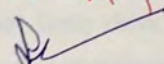
**Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.**

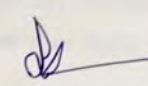
## CERTIFICATE

This is to certify that the project report titled **“Study of Dielectric Behavior of Soils at Microwave Frequencies”** for T.Y.B.Sc. (Physics) is a work carried out by Miss. Dipmala Babulal Patel of T.Y.B.Sc. Physics of R.C.Patel Arts, Commerce and Science College, Shirpur, for fulfillment of M.Sc. course of North Maharashtra University, Jalgaon under our supervision in the Department of Physics in the academic year 2021-22.

  
Internal Examiner

  
External Examiner

  
Project Guide  
(Dr. Avinash A. Patil)

  
for Head

Date: 5/05/2022

Place: Shi-pur



**A**  
**REPORT ON**  
**“A Study On Online Sport Shop”**

**Submitted By**  
**Mayur Rajesh Chaudhari**

**Guided by**  
**Mr. M.G.Vaidya**

**Department of Computer Application**  
**R. C. Patel Arts, Commerce and Science College,**  
**Shirpur, Dhule. 425405**



**Submitted to**  
**K. B. C. North Maharashtra University, Jalgaon.**  
**[2021-22]**



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce & Science College**

Karwand Naka, Shirpur-425405, Dist.-Dhule, Maharashtra

☎ : (02563)257328 Fax No. : 256170-255189

E Mail : dr.drpatil@gmail.com

President

Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## ***CERTIFICATE***

This is to certify that **Chaudahri Mayur Rajesh** student of **T.Y.BCA** has completed their project work on “**A Study on Online Sports Shop Management System**” for the **K. B. C. North Maharashtra University, Jalgaon** under the guidance of **Ms. M. G. Vaidya** during the academic year 2021-22.

**Date:** 22/04/2022

**Place:** Shirpur

**Guide**

**Ms. M. G. Vaidya**

**H. O. D**

**Ms. M. G. Vaidya**  
**Head of Department**  
**Computer Application**  
R.C.Patel Arts, Comm. & Sci. College  
Shirpur Dist Dhule



**Internal**

**External**

A  
REPORT ON  
**“A Study On Driving School Management System”**

Submitted By  
**Hemant Sudhir Chaudhari**

Guided by  
**Ms.M. G. Vaidya**

**Department of Computer Application**  
**R. C. Patel Arts, Commerce and Science College,**  
**Shirpur, Dhule. 425405**



**Submitted to**  
**K. B. C. North Maharashtra University, Jalgaon.**  
**[2021-22]**



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce & Science College**

Karwand Naka, Shirpur-425405, Dist.-Dhule, Maharashtra  
☎ : (02563)257328 Fax No. : 256170-255189  
E Mail : dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## ***CERTIFICATE***

This is to certify that **Hemant Sudhir Chaudhari** student of T.Y.BCA has completed their project work on “**A Study on Driving School Management System**” for the K. B. C. North Maharashtra University, Jalgaon under the guidance of Ms. M. G. Vaidya during the academic year 2021-22.

**Date:** 22/04/2022

**Place:** Shirpur

**Guide**

**Ms. M. G. Vaidya**

**H. O. D**

**Ms. M. G. Vaidya**  
**Head of Department**  
**Computer Application**  
R.C.Patel Arts, Comm. & Sci. College  
Shirpur Dist Dhule



**Internal**

**External**

A  
REPORT ON  
**“A Study On Car Shop Management System”**

Submitted By

Ahire Swapnil Hilal

Guided by

Ms. M. G. Vaidya

Department of Computer Application

R. C. Patel Arts, Commerce and Science College,  
Shirpur, Dhule. 425405



Submitted to

K. B. C. North Maharashtra University, Jalgaon.

[2021-22]



R. C. Patel Educational Trust's  
**R. C. Patel Arts, Commerce & Science College**

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Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## ***CERTIFICATE***

This is to certify that **Ahire Swapnil Hilal** student of **T.Y.BCA** has completed their project work on “**A Study on Car Shop Management System**” for the **K. B. C. North Maharashtra University, Jalgaon** under the guidance of **Ms. M. G. Vaidya** during the academic year 2021-22.

**Date:** 22/04/2022

**Place:** Shirpur

**Guide**

**Ms. M. G. Vaidya**



**H. O. D**

**Ms. M. G. Vaidya**  
**Head of Department**  
**Computer Application**  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur Dist Dhule

**Internal**

**External**

**A**  
**REPORT ON**  
**“A Study On Medical Management System”**

**Submitted By**  
**Devang Manohar Patil**

**Guided by**  
**Ms. M. G. Vaidya**

**Department of Computer Application**

**R. C. Patel Arts, Commerce and Science College,  
Shirpur, Dhule. 425405**



**Submitted to**

**K. B. C. North Maharashtra University, Jalgaon.**

**[2021-22]**



R. C. Patel Educational Trust's  
**R. C. Patel Arts, Commerce & Science College**

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E Mail : dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## **CERTIFICATE**

This is to certify that **Devang Manohar Patil** student of **T.Y.BCA** has completed their project work on “**A Study on Medical Store Management System**” for the **K. B. C. North Maharashtra University, Jalgaon** under the guidance of **Ms. M. G. Vaidya** during the academic year 2021-22.

**Date:** 22/04/2022

**Place:** Shirpur

**Guide**

**Ms. M. G. Vaidya**

**H. O. D**

**Ms. M. G. Vaidya**  
**Head of Department**  
**Computer Application**

R.C.Patel.Arts,Comm. & Sci.College  
Shirpur Dist Dhule

**Internal**



**External**



**A**  
**REPORT ON**  
**“A Study On Furniture Store Management System”**

**Submitted By**

**Chaudhari Roshan Vitthal**

**Guided by**

**Ms. M. G. Vaidya**

**Department of Computer Application**

**R. C. Patel Arts, Commerce and Science College,  
Shirpur, Dhule. 425405**



**Submitted to**

**K. B. C. North Maharashtra University, Jalgaon.**

**[2021-22]**



R. C. Patel Educational Trust's  
**R. C. Patel Arts, Commerce & Science College**

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President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## ***CERTIFICATE***

This is to certify that **Chaudahri Roshan Vittal** student of T.Y.BCA has completed their project work on “**A Study on Furniture Store Management System**” for the K. B. C. North Maharashtra University, Jalgaon under the guidance of Ms. M. G. Vaidya during the academic year 2021-22.

**Date:** 22/04/2022

**Place:** Shirpur

**Guide**

**Ms. M. G. Vaidya**

**Internal**



**H. O. D**

**Ms. M. G. Vaidya**  
**Head of Department**  
**Computer Application**  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur Dist Dhule

**External**

A

PROJECT REPORT ON

**“TOURISM MANAGEMENT SYSTEM”**

Submitted By:

**BHOI HARSHAL SANTOSH**

Guided by:

Prof. Mr. G.K.BIDE



R. C. Patel Educational Trust's

R .C.Patel, Arts, Commerce and Science

College, Shirpur, Dhule.425405

Department of Computer and Management

[2021-22]

Submitted to

K.B.C.North Maharashtra University, Jalgaon.



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce & Science College**

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President

Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## CERTIFICATE

This is to certify that **Mr.Bhoi Harshal** has completed their project entitled "TOURISAM MANAGEMENT SYSTEM", for practical fulfillment of BACHLOR OF MANAGEMENT STUDIES(E-COMMERCE) for K.B.C. North Maharashtra University .Jalgaon under our guidance during academic year 2021-22.

This performs and the system is up to make and we are satisfied with the same.

**Date:17/03/2022**

**Prof. R.M.Suryawanshi**

**Project Guide**

**Internal: 1**

**Place: Shirpur**

**Prof. M.G.Vaidya**

**H.O.D**

**External: 2**

A

PROJECT REPORT ON

**“SPORT SHOP MANAGEMENT SYSTEM”**

Submitted By:

**SONAWANE NILESH SANJAY**

Guided by:

Prof. Mr. G.K.BIDE



**R. C. Patel Educational Trust's**

**R.C.Patel, Arts, Commerce and Science**

**College, Shirpur, Dhule.425405**

**Department of Computer and Management**

[2021-22]

Submitted to

**K.B.C.North Maharashtra University, Jalgaon,**



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce & Science College**

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President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## CERTIFICATE

This is to certify that **Mr.Sonawane Nilesh Sanjay** has completed their project entitled "**SPORT SHOP MANAGEMENT SYSTEM**", for practical fulfillment of **BACHLOR OF MANAGEMENT STUDIES(E-COMMERCE)** for K.B.C. North Maharashtra University .Jalgaon under our guidance during academic year 2021-22.

This performs and the system is up to make and we are satisfied with the same.

**Date:17/03/2022**

**Prof. R.M.Suryawanshi**

**Project Guide**

**Internal: 1**

**Place: Shirpur**

**Prof. M.G.Vaidya**

**H.O.D**

**External: 2**

A

PROJECT REPORT ON  
**“GYM MANAGEMENT SYSTEM”**

Submitted By:

**MORE CHETAN HIRALAL**

Guided by:

**Prof. Mr. G.K.BIDE**



**R. C. Patel Educational Trust's**

**R .C.Patel, Arts, Commerce and Science**

**College, Shirpur, Dhule.425405**

**Department of Computer and Management**

[2021-22]

**Submitted to**

**K.B.C.North Maharashtra University, Jalgaon.**



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Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## CERTIFICATE

This is to certify that **Mr. More Chetan Hiralal** has completed their project entitled "**GYM MANAGEMENT SYSTEM**", for practical fulfillment of **BACHLOR OF MANAGEMENT STUDIES(E-COMMERCE)** for K.B.C. North Maharashtra University .Jalgaon under our guidance during academic year 2021-22.

This performs and the system is up to make and we are satisfied with the same.

**Date: 17/03/2022**

**Prof. R.M. Suryawanshi**

**Project Guide**

**Internal: 1**

**Place: Shirpur**

**Prof. M.G. Vaidya**

**H.O.D**

**External: 2**



A  
PROJECT REPORT ON  
**“HOTEL BOOKING MANAGEMENT SYSTEM”**

Submitted By:  
AGRAWAL NARESH MANOJ

Guided by:  
Prof. Mr. G.K.BIDE



R. C. Patel Educational Trust's  
R .C.Patel, Arts, Commerce and Science  
College, Shirpur, Dhule.425405  
Department of Computer and Management

[2021-22]

Submitted to  
K.B.C.North Maharashtra University, Jalgaon.



R. C. Patel Educational Trust's

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President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## CERTIFICATE

This is to certify that **Mr.Agrawal Naresh Manoj** has completed their project entitled **"HOTEL BOOKING MANAGEMENT SYSTEM"**, for practical fulfillment of **BACHLOR OF MANAGEMENT STUDIES(E-COMMERCE)** for K.B.C. North Maharashtra University .Jalgaon under our guidance during academic year 2021-22.

This performs and the system is up to make and we are satisfied with the same.

**Date:17/03/2022**

**Prof. R.M.Suryawanshi**

**Project Guide**

**Internal: 1**

**Place: Shirpur**

**Prof. M.G.Vaidya**

**H.O.D**

**External: 2**

A

PROJECT REPORT ON

**“EMPLOYEE MANAGEMENT SYSTEM”**

Submitted By:

JADHAV CHIRAG RAMRATAN

Guided by:

Prof. Mr. G.K.BIDE



R. C. Patel Educational Trust's

R .C.Patel, Arts, Commerce and Science  
College, Shirpur, Dhule.425405

Department of Computer and Management

[2021-22]

Submitted to

K.B.C.North Maharashtra University, Jalgaon.



R. C. Patel Educational Trust's

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President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Out Ward No. RCP/ /

Date: / /200

## CERTIFICATE

This is to certify that **Mr. Jadhav Chirag Ramratan** has completed their project entitled "**EMPLOYEE MANAGEMENT SYSTEM**", for practical fulfillment of **BACHLOR OF MANAGEMENT STUDIES(E-COMMERCE)** for K.B.C. North Maharashtra University .Jalgaon under our guidance during academic year 2021-22.

This performs and the system is up to make and we are satisfied with the same.

**Date:17/03/2022**

**Prof. R.M.Suryawanshi**

**Project Guide**

**Internal: 1**

**Place: Shirpur**

**Prof. M.G.Vaidya**

**H.O.D**

**External: 2**

# **ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS.**

**Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**

**A Project Report Submitted**

**For**

**Partial Fulfilment of M. Sc. Botany Degree**

**By**

**Mr. Patil Prashant Hemraj**

**P. G. Department of Botany,**

**R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India**

**Under the guidance of**

**Mr. Hemant A. Wagh**

**R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India.**

**Academic Year 2021-22**

## CERTIFICATE

This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS" Is an original work carried out by Mr. Patil Prashant Hemraj under my supervision at the Department of Botany R. C. Patel Arts, Commers and Science Sr. College, Shirpur, Dist- Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

*Wheke*

(Mrs. Vijayalaxmi S. Shelke)

Head, Department of Botany

Date 01/07/2022

Place: Shirpur

*Examined  
Prashant Hemraj  
13/07/2022*

*Wheke  
13/07/22*

**“Biodiversity Of Aero-algae In Shirpur City”**

A Project Work Submitted To The  
Department Of Botany

R.C. Patel A.C.S. College Shirpur

For the compliance of compulsory project for Master's Degree In the faculty of  
Science

By

**Miss. Nikam Jayashri Mahendra**

Under The Guidance Of

**Mr. Yogeshwar S. Koli**



Kavitribha Bahinabai Chaudhari North Maharashtra University, Jalgaon

APRIL, 2022



### CERTIFICATE

I hereby certify that the research project work entitled "Biodiversity of Aero-algae in Shirpur City" submitted by Miss. Nikam Jayashri Mahendra for the award of Degree of M.Sc. in BOTANY the work has been done independently and satisfactory at P.G. Department of Botany under the guidance of Mr. Koli Yogeshwar S.

Date : 06/07/2022

Place : Shirpur

*Wheke ..*  
Mrs. Shelke Vijayalaxmi. S  
Head, P.G. Department Of Botany  
R.C. Patel ACS College Shirpur

*Examined*  
*[Signature]*  
13/07/2022

*Wheke ..*  
13/07/22



# ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS.

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

A Project Report Submitted

For

Partial Fulfilment of M. Sc. Botany Degree

By

Miss. Rajput Kiran Ranjit

P. G. Department of Botany,

R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India

Under the guidance of

Mr. Hemant A. Wagh

R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India.

Academic Year 2021-22

## CERTIFICATE

This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS" Is an original work carried out by Miss. **Rajput Kiran Ranjit** under my supervision at the Department of Botany R. C. Patel. Arts, Commers and Science Sr. College, Shirpur, Dist- Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

*Wheke*

(Mrs. Vijayalaxmi S. Shelke)

**Head, Department of Botany**

Date: **01/07/2022**

Place: Shirpur

*Examined  
by  
J. M. Patil  
13/07/2022*

*Wheke  
13/07/22*

# **ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS.**

**Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**

**A Project Report Submitted**

**For**

**Partial Fulfilment of M. Sc. Botany Degree**

**By**

**Miss. Saner Tejaswini Yuvraj**

**P. G. Department of Botany,**

**R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India**

**Under the guidance of**

**Mr. Hemant A. Wagh**

**R. C. Patel. Arts, Commers and Science Sr. College, Shirpur-425405, (MH), India.**

**Academic Year 2021-22**

## CERTIFICATE

This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI OF SOME AGRICULTURE PLANTS" Is an original work carried out by Miss. Saner Tejaswini Yuvraj under my supervision at the Department of Botany R. C. Patel. Arts, Commers and Science Sr. College, Shirpur, Dist- Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.

*Wheke*

(Mrs. Vijayalaxmi S. Shelke)

Head, Department of Botany

Date: 01/07/2022

Place: Shirpur

Examined  
*[Signature]*  
13/07/2022

*Wheke*  
13/07/22

**“STUDY OF POLLEN GRAINS OF FLOWERS FORM CAMPUS OF R.C  
PATEL COLLEGE”**

A Project Work Submitted To The Department Of  
Botany

R.C. Patel A.C.S. Sr. College, Shirpur

For the compliance of compulsory project for Master’s Degree In  
the faculty of Science

By

Miss. Tejaswini Magan Vasave

Under The Guidance Of

Miss. Yogita Girase



Kaviyatri Bahinabai Chaudhari North Maharashtra  
University, Jalgaon

July 2022



### CERTIFICATE

I hereby certify that the research project entitled "study of pollen grain of flowers from campus of R.C.Patel" submitted by

Miss. Tejaswini Magan Vasave for the award of Degree of M.Sc. in **BOTANY** the work has been done independently and satisfactory at P.G. Department of Botany under the guidance of, Yogita Girase.

Date : 10 /07/2022

Place : Shirpur

*Wheke*  
Mrs. Shelke Vijayalaxmi.S  
Head, P.G. Department Of  
Botany  
R.C. Patel A.C.S College  
Shirpur

*Examined  
J.M. Jaisant  
13 July 2022*

*Wheke  
13/07/22*

# MEDICINAL PLANT IN SHIRPUR TAHSIL

A Project Work Submitted to The

Department of Botany

R. C. Patel A.C.& S. College Shirpur

For the Compliance of compulsory project for Master's Degree

In the Faculty of Science

By

Miss. Patil Poonam Sudam

Under the Guidance Of

Mr. Rohidas. H. Pawara



Kavayatri Bhabinabai Chaudhari North Maharashtra University Jalgaon

July 2022



### CERTIFICATE

I hereby certify that the research project work entitled "MEDICINAL PLANT IN SHIRPUR TAHSIL" Submitted by Miss. Patil Poonam Sudam From the award of degree of MSc Botany the work has been done independently & the satisfactory at PG Department of BOTANY under the Guidance of Mr. R. H. Pawara

Date: - 10-07-2022  
Place: - Shirpur

*Shelke*  
Mrs. Vijayalaxmi S. Shelke  
Head P.G. Department of Botany

Examined  
*[Signature]*  
13/07/2022

*Shelke*  
13/07/22



**"STUDY OF POLLEN GRAINS OF FLOWERS FROM CAMPUS OF  
R.C. PATEL COLLEGE"**

A Project Work Submitted To The Department Of Botany

R.C. Patel A.C.S. Sr. College, Shirpur

For the compliance of compulsory project for Master's Degree In the  
faculty of Science

By

Miss. Harshani Jitendra Rajput

Under The Guidance Of

Miss. Yogita Girase



**Kaviyatri Bahinabai Chaudhari North Maharashtra  
University, Jalgaon**

**April 2022**



### CERTIFICATE

I hereby certify that the research project entitled "study of pollen grain of flowers from campus of R.C. Patel" submitted by Miss. Harshani Jitendra Rajput for the award of Degree of M.Sc. in BOTANY the work has been done independently and satisfactory at P.G. Department of Botany under the guidance of. Yogita Girase.

Date : 09/07/2022

Place : Shirpur

*Whelke*

Mrs. Shelke V. S.  
Head, P.G. Department  
Of Botany  
R.C. Patel ACS College  
Shirpur

*Examiner*  
*Yogita Girase*  
*13 July 2022*

*Whelke*  
*13/07/22*

R. C. Patel. Arts, Commers and Science College, Shirpur 425405, (MH), India

# ISOLATION OF SOIL FUNGI FROM SHIRPUR TALUKA

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

A Project Report Submitted

For

Partial Fulfilment of M.Sc. Botany Degree

By

Miss. Marathe Kalyani Vilas

P. G. Department of Botany,

Under the guidance of

Mrs. Vijayalaxmi S. Shelke

R. C. Patel. Arts, Commers and Science College, Shirpur-425405, (MH), India.

Academic Year 2021-22

## CERTIFICATE

This is to certify that the present project work entitle "ISOLATION OF SOIL FUNGI FROM SHIRPUR TALUKA" Is an original work carried out by Miss. Marathe Kalyani Vilas under my guidance and supervision at the Department of Botany R. C. Patel. Arts, Commers and Science College, Shirpur, Dist- Dhule.

This work has not been submitted or published anywhere in the form of thesis or dissertation. We consider this work worthy for the partial fulfilment of degree of Master of Science in Botany.



(Mrs. Vijayalaxmi S. Shelke)

Head, Department of Botany

Date:

Place: Shirpur



**PROJET REPORT**  
**ON**  
**“STUDIES OF BIRDS FOUND IN SHIRPUR”**

Submitted to the – KBC N.M.U.Jalgaon For the  
practical fulfillment of the Master’s degree of science in  
Zoology

Submitted by –

**Miss. Neha Chandrakant Sonar**

Under the Guidance of -

**Dr. M. C. Agale**

**Department of Zoology**

**The Shirpur Educational Trust (RCPET)**

**R.C.Patel Arts,Commerce and Science College Shirpur**

**(425-405) 2021-2022 Dist- Dhule.**



**The Shirpur Educational Trust (RCPET) R.C.Patel. ASC College  
Shirpur, Dist – Dhule. (M.S.)**

**Department of Zoology**

**CERTIFICATE**

This is certify that **NEHA CHANDRAKAN SONAR** from Msc (Zoology) has satisfactorily carried our project work on “**STUDIES OF BIRDS FOUND IN SHIRPUR**” and submitted the report in the premises of Department of zoology under the guidance of **Dr. M.C.Aagle** during the academic year 2021-22 .

Date:

Place: Shirpur

Dr.M.C.Aagle

Internal Examiner

External Examiner



# **PROJECT REPORT**

**On**

**Agricultural Pest In Shirpur Area**

Submitted to the KBC N. M. U. Jalgaon

For the partial fulfilment of the

Master's degree Of science In Zoology

Submitted by :

**Miss. Rajeshri Sanjay Patil**

Under the Guidance of: **Dr. M. C. Agale**

**Department of Zoology**

The Shirpur Educational Trust (RCPET)

R. C. Patel. ASC College Shirpur (425-405)

**2021-2022**



R C PATEL EDUCATIONAL TRUST

**The Shirpur Educational Trust (RCPET)**

**R. C. Patel. ASC College**

**Shirpur, Dist. Dhule. (M.S.)**

**Department of Zoology**

**CERTIFICATE**

This is to certified that the project entitled **Agricultural Pest In Shirpur Area** has been satisfactory carried out by **Patil Rajeshri Sanjay** of M. Sc class under the guidance of **Dr. M. C. Aagle** during the academic year 2021-22

**Date:**

**Place: Shirpur**

**Dr. M. C. Aagle**

**Guide**

**(H.O.D)**

**Internal Examiner**

**External Examiner**





**Project Report On  
Identification Of Domestic Goat  
Breeds In Maharashtra**

Submitted to the KBC N. M. U. Jalgaon

For the partial fulfilment of the  
Master's degree of science In Zoology

Submitted by :

Miss. **Mohini Prabhakar Sonawane**

M. Sc Zoology

Under the Guidance of:

**Dr. M. C. Agale**

**Department of Zoology**

**The Shirpur Educational Trust(RCPET)  
R. C. Patel. ASC College Shirpur (425-405)  
2021-2022**



R.C.PATEL EDUCATIONAL TRUST  
\*\*\*\*\*

**The Shirpur Educational Trust(RCPET)  
R. C. Patel. ASC College  
Shirpur Dist Dhule.(M.S)**

**CERTIFICATE**

This is to certified that the project entitled **Identification Of Domestic Goat Breeds In Maharashtra** has beensatisfatory carried out by **Mohini Prabhakar Sonawane** of M. Sc class under the guidance of **Dr. M. C. Aagle** during the academic year 2021-22

Date:

Place: Shirpur

**Dr. M. C. Aagle  
Guide  
(H.O.D)**

**Internal Examiner**

**External Examiner**

# **ESTIMATION OF VITAMIN C FROM DIFFERENT SOURCES**



## **PROJECT REPORT**

**SUBMITTED IN PARTIAL FULFILMENT OF  
"M.Sc. DEGREE IN ZOOLOGY"  
KAVAYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERSITY, JALGAON**

**Submitted by:  
MISS. PATIL NUTAN BHATU**

**UNDER THE GUIDANCE OF  
DR. M. C. AAGLE.  
DEPARTMENT OF ZOOLOGY  
THE SHIRPUR EDUCATIONAL TRUST (RCPET)  
R C PATEL ARTS, SCIENCE & COMMERCE  
SCIENCE COLLEGE, SHIRPUR.**

**2021-22**

**THE SHIRPUR EDUCATION TRUST (RCPET)  
R. C. PATEL ASC COLLEGE,  
SHIRPUR, DIST. DHULE. (M.S.)**



**DEPARTMENT OF ZOOLOGY**

**CERTIFICATE**

This is to certified that the project work entitled "Estimation of Vitamin C from different sources" has been satisfactory carried out by Patil Nutan Bhatu of M.Sc class under my guidance and supervision at the Dept. of Zoology RCPCS.

This work has not been submitted or published anywhere in the form of thesis or dissertation. I consider this work for the partial fulfilment of degree master of science in Zoology.

Date:

  
Dr. M.C. Aagle (H.O.D)

  
Internal Examiner

Place: Shirpur

  
External Examiner



## **PROJECT REPORT**

**On**

### **STUDY OF INDIAN OWLS**

Submitted To The KBC N. M. U. Jalgaon  
For The Partial Fulfilment Of The  
Master's degree Of Science In Zoology  
Submitted by :

**Miss. Manisha shendya Pawara**

Under the Guidance of: **Dr. M. C. Agale**

**Department of Zoology**

The Shirpur Educational Trust (RCPET)  
R. C. Patel. ASC College Shirpur (425-405)

**2021-2022**



THE SHIRPUR EDUCATIONAL TRUST (RCPET)  
R. C. PATEL. ASC COLLEGE  
SHIRPUR, DIST. DHULE. (M.S.)

## Department of Zoology

### CERTIFICATE

This Is To Certified That The Project Entitled Study Of Indian Owls Has Been Satisfactory Carried Out By Pawara Manisha Shendya Of M. Sc Class Under The Guidance Of Dr. M. C. Aagle During The Academic Year 2021-22

**Date:** / /2022

**Place:** Shirpur

Dr. Aagle Sir  
(H.O.D)

Internal Examiner

External Examiner Guide

**“GREEN SYNTHESIS OF SILVER  
NANOPARTICLES USING THE LEAF EXTRACT  
OF *ELAEOCARPUS GANITRUS*”**

**A  
Dissertation Project Submitted  
To**

**Kavayitri Bahinabai Chaudhari North Maharashtra  
University Jalgaon**

**In the partial fulfillment  
for the  
Degree of**



**Master of Science  
In  
Biotechnology**

**Project Supervisor**

Mrs. Amruta Joshi  
Assistant Professor  
Department of Biotechnology,  
R. C. Patel ACS College, Shirpur

**Submitted by**

Ms. Nandini Sonawane  
Ms. Unnati Bhairav  
Ms. Bhavana Patil  
Mr. Purushottam Sonar  
Mr. Jay Patil



R. C. Patel Arts, Science and Commerce  
College Shirpur

**Department of Biotechnology**

## **CERTIFICATE**

This is to certify that dissertation work entitled “**GREEN SYNTHESIS OF SILVER NANOPARTICLES USING THE LEAF EXTRACT OF *ELAEOCARPUS GANITRUS***” is the original research work carried out by **Mr. Patil Jay, Mr. Sonar Purushottam, Ms. Patil Bhavana, Ms. Bhairav Unnati, Ms. Sonawane Nandini** under the supervision of **Mrs. Amruta Joshi** for the partial fulfillment of the degree of “**Master of Science in Biotechnology**” during the academic year 2021-2022 at R. C. Patel A. S. C. College, Shirpur.


Place: Shirpur

Date:

  
**Mrs. Amruta Joshi**

Asst. Professor,  
Dept. of Biotechnology  
R. C. Patel, A.S.C. College,  
Shirpur - 425405



  
**Dr. Ravindra H. Patil**  
Head

Dept. Of Biotechnology  
R. C. Patel, A. S.C. College,  
Shirpur - 425405

  
**INTERNAL EXAMINAR**  
MSc PROJECT DISSERTATION

  
**EXTERNAL EXAMINER**

PAGE 3



**“BIOGENIC SYNTHESIS OF SILVER NANOPARTICLES  
USING PLANT LEAF EXTRACT OF *CISSUS  
QUADRANGULARIS*”**

**A Dissertation Project**

**Submitted To**

**Kavayitri Bahinabai Chaudhari,  
North Maharashtra University, Jalgaon**



**In The Partial Fulfillment For  
The Degree Of**

**MASTER OF SCIENCE  
(BIOTECHNOLOGY)**

**Project Guide**

Mrs. Ashwini Patil

Assistant Professor,

Department Of Biotechnology,

R.C. Patel ACS College,

Shirpur.

**Submitted By**

Miss. Sakshi Mahajan

Miss. Pradnya Desale

Miss. Karishma Patil

Mr. Ganesh Kadam

Mr. Paresh Chaudhari



**R. C. Patel, Arts, Commerce and  
Science College, Shirpur**  
Department of Biotechnology


## CERTIFICATE

This is to certify that the project entitled “Biogenic synthesis of Silver Nanoparticles using plant leaf extract of *Cissus quadrangularis*” submitted for partial fulfillment of Degree of “Master of Science in Biotechnology” was carried out in the Department of Biotechnology and Microbiology, R. C. Patel, ACS, College, Shirpur, by Ms. Sakshi Mahajan, Ms. Pradnya Desale, Ms. Karishma Patil, Mr. Ganesh Kadam, Mr. Paresh Chaudhari under the guidance of Mrs. Ashwini Patil.


The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from Research Guide and Head of Department of Biotechnology, R. C. Patel, ACS, College, Shirpur.

Place: Shirpur


Date:

  
Mrs. Ashwini Patil  
Asst. Professor,  
Dept. Of Biotechnology,  
R. C. Patel, ACS, College,  
Shirpur - 425405



  
Dr. Ravindra H. Patil  
Head,  
Dept. Of Biotechnology  
R. C. Patel, ACS, College,  
Shirpur - 425405

  
Internal Examiner

  
External Examiner

**Green synthesis of silver nanoparticles using  
*Butea Monosperma* plant extract: In vitro  
characterizations and antibacterial activity**

A

**Dissertation project submitted to**

**Kavayitri Bahinabai Chaudhari North  
Maharashtra University Jalgaon**



**In the partial fulfillment for  
the degree of**

**Master of Science  
(Microbiology)**

**Submitted by**

**Mr. Saurabh Marathe  
Miss. Ashwini Sonawane  
Miss. Amrapali Wagh  
Miss. Hemangi Patil  
Miss. Riya Godhawani  
Mr. Sandeep Patil  
Miss. Nisha Rajput**

**Project Guide**

**Dr. Ashwini G. Patil**

**Assistant Professor**

**Department of Microbiology, R. C. Patel ACS College, Shirpur  
2021-2022**



## DEPARTMENT OF MICROBIOLOGY




### CERTIFICATE


This is to certify that project entitled "Green synthesis of silver nanoparticles using *Butea Monosperma* plant extract: In vitro characterizations and antibacterial activity", submitted for partial fulfilment of degree of "Master of Science in Microbiology" were carried out in the Department of microbiology, R.C. Patel A.C.S. College, Shirpur, By **Mr. Saurabh Marathe, Miss. Ashwini Sonawane, Miss. Amrapali Wagh, Miss. Hemangi Patil, Miss. Riya Godhawani, Mr. Sandeep Patil, Miss. Nisha Rajput**, This work was carried out during the academic year 2021-22 under the supervision of **Dr. Ashwini G. Patil** (Asst. Professor, Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from research guide/head department of microbiology,  
R. C. Patel A. C. S. College, Shirpur.

Place: Shirpur

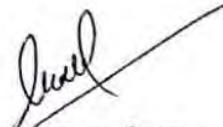
Date:

  
14/07/22  
**Dr. Ashwini G. Patil**  
(Project Guide)

  
Head  
Dept. of Microbiology

  
Internal Examiner



  
External Examiner

**SYNTHESIS, CHARACTERIZATION AND  
FLUORESCENCE STUDY OF SOME  
PHTHALEIN DYES**

*A THESIS SUBMITTED TO*

**K.B.C. NORTH MAHARASHTRA UNIVERSITY, JALGAON**

*FOR THE DEGREE OF*

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY**

*BY*

**MR. RUTIK DASU GAVIT  
MR. DURGESH DASHARATH BHAVAR  
MR. YOGESHWAR SARJERAO NIKAM  
MR. VISHAL SANJAY BHAMARE**

*UNDER THE GUIDANCE OF*

**MR. J. P. SONAWANE**



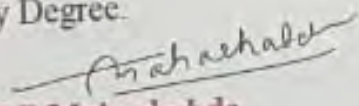
R. C. Patel Educational Trust

**DEPARTMENT OF CHEMISTRY  
R. C. PATEL A. S. C. COLLEGE, SHIRPUR  
Dist-Dhule 425405**

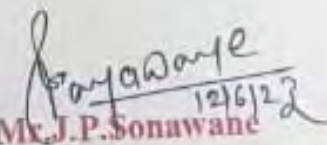
**2022-23**

## CERTIFICATE

This is to certify that the thesis entitled "SYNTHESIS, CHARACTERIZATION AND FLUORSCENCE STUDY OF SOME PHTHALEIN DYES " submitted by MR.RUTIK DASU GAVIT, MR.DURGESH DASHARATH BHAVAR, MR.YOGESHWAR SARJERAO NIKAM & MR.VISHAL SANJAY BHAMARE for the award of the Degree of Master of Science in Chemistry (Specialization in Organic Chemistry) is a record of bonafide research work done under my guidance and supervision during the period of M.Sc-II in the Department of Organic chemistry under the aegis of KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON and that it has not previously formed the basis for the award of any Degree.

  
Dr. J.P. Mahashabde

Head  
Department of chemistry

  
Mr. J.P. Sonawane  
12/6/22

Project Guide

A  
Project Report On  
"GREEN MEDIA FOR EFFICIENT & CLEAN SYNTHESIS OF AZO  
DYES"

Submitted By  
**MR NAYAN SUNIL PATIL**

Guided By  
**Prof. K. A. PAWARA**

In Partial Fulfillment of The Degree of  
**MASTER OF Organic Chemistry**  
(M.Sc. Organic Chemistry)

Under  
**KAVAYITRI BAHINABAI CHAUDHARI NORTH  
MAHARASHTRA UNIVERSITY, JALGAON**

Submitted To



R.C. Patel Educational Trust's,  
**R.C. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,**  
**SHIRPUR, 425 405 DIST. DHULE (M.S.)**  
[2021-22]



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur-425405, Dist - Dhule, Maharashtra

☎ (02563)257328, 257329 Fax No. 256170-255189  
E-mail: dr.drpabi@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No.:

Date: 12/07/2022

## CERTIFICATE

This is to certify that Mr Nayan Sunil Patil student of M.Sc. (Organic Chemistry) has completed her project work entitled "Green Media for Efficient & Clean Synthesis of Azo Dyes " at "R.C. Patel Arts, Commerce & Science college, Shirpur" as part of M.Sc. (OC) curriculum for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-22.


This performance and the system are up to mark and we are satisfied with same.

Date: 12/07/2022

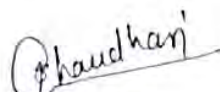
Place: Shirpur

  
Guide

Prof. K.A. Pawara

  
Head Of Department  
(Chemistry)

Dr. J. P. Mahashabde

  
External 2



  
External 1



A  
Project Report On  
"SYNTHESIS & CHARACTERIZATION OF  
SOME NEW AZO DYES"

Submitted By  
**MR SAURABH PATIL**

Guided By  
**Prof. J.P.SONAWANE**

In Partial Fulfillment of The Degree of  
**MASTER OF Organic Chemistry**  
(M.Sc. Organic Chemistry)

Under  
**KAVAYITRI BAHINABAI CHAUDHARI NORTH  
MAHARASHTRA UNIVERSITY, JALGAON**

Submitted To



R.C.Patel Educational Trust's,  
**R.C. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,**  
**SHIRPUR, 425 405 DIST. DHULE (M.S.)**  
**[2021-22]**



R. C. PATEL EDUCATIONAL TRUST  
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R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No.:

Date: 11/07/2022

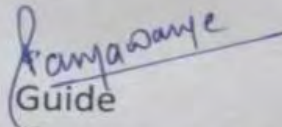
## CERTIFICATE

This is to certify that Mr Saurabh Patil student of M.Sc. (Organic Chemistry) has completed her project work entitled "Synthesis & Characterization of Some New Azo Dyes" at "R.C. Patel Arts, Commerce & Science college, Shirpur" as part of M.Sc. (OC) curriculum for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-22.


This performance and the system are up to mark and we are satisfied with same.

Date: 11/07/2022

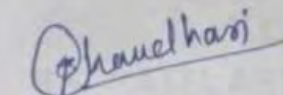
Place: Shirpur

  
Guide

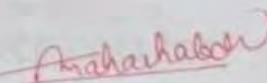
Prof. J.P. Sonawane

  
Head Of Department  
(Chemistry)

Dr. J. P. Mahashabde

  
External 2



  
External 1

A  
Project Report On  
"FACILE SYNTHESIS OF PROPRANOLOL & ITS NOVEL  
DERIVATIVES"

Submitted By  
**MISS NEHA NARENDRA MISHRA**

Guided By  
**Prof. J. P. SONAWANE**

In Partial Fulfillment of The Degree of  
**MASTER OF Organic Chemistry**  
(M.Sc. Organic Chemistry)

Under  
**KAVAYITRI BAHINABAI CHAUDHARI NORTH  
MAHARASHTRA UNIVERSITY, JALGAON**

Submitted To



R.C. Patel Educational Trust's,  
**R.C. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,**  
**SHIRPUR, 425 405 DIST. DHULE (M.S.)**

**[2021-22]**



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

R. C. PATEL EDUCATIONAL TRUST

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.dpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No.:

Date: 13/07/2022

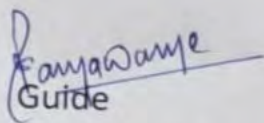
## CERTIFICATE

This is to certify that **Miss Neha Narendra Mishra** student of **M.Sc. (Organic Chemistry)** has completed her project work entitled "**Facile Synthesis of Propranolol & Its Novel Derivatives**" at "**R.C. Patel Arts, Commerce & Science college, Shirpur**" as part of M.Sc. (OC) curriculum for **Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon** under our guidance during the academic year 2021-22.

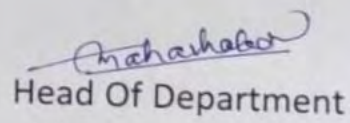
This performance and the system are up to mark and we are satisfied with same.

Date: 13/07/2022

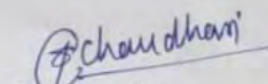
Place: Shirpur

  
Guide

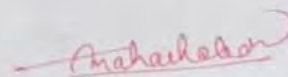
Prof. J. P. Sonawane

  
Head Of Department  
(Chemistry)

Dr. J. P. Mahashabde

  
External 2



  
External 1

A  
Project Report On  
"SYNTHESIS & CHARACTERIZATION STUDIES OF SOME NEW  
THYMOL BASED AMIDE & IMINE DERIVATIVES"

Submitted By  
**MISS JAGRUTI NANDKISHOR PATIL**

Guided By  
**Prof. J. P. SONAWANE**

In Partial Fulfillment of The Degree of  
**MASTER OF Organic Chemistry**  
(M.Sc. Organic Chemistry)

Under  
**KAVAYITRI BAHINABAI CHAUDHARI NORTH  
MAHARASHTRA UNIVERSITY, JALGAON**

Submitted To



R.C.Patel Educational Trust's,  
**R.C. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,**  
**SHIRPUR, 425 405 DIST. DHULE (M.S.)**  
**[2021-22]**



R.C.PATEL EDUCATIONAL TRUST

\*\*\*\*\*

R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎ (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.dpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No.:

Date: 11/04/2022

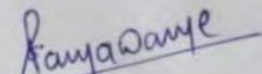
## CERTIFICATE

This is to certify that Miss Jagruti Nandkishor Patil student of M.Sc. (Organic Chemistry) has completed her project work entitled "Synthesis & Characterization of Some New Thymol Based Amide & Imine Derivatives" at "R.C. Patel Arts, Commerce & Science college, Shirpur" as part of M.Sc. (OC) curriculum for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-22.

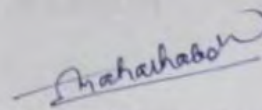
This performance and the system are up to mark and we are satisfied with same.

Date: 11/04/2022

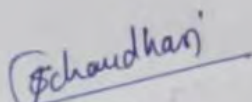
Place: Shirpur

  
Guide

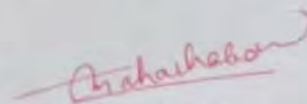
Prof. J. P. Sonawane

  
Head Of Department  
(Chemistry)

Dr. J. P. Mahashabde

  
External 2



  
External 1

A  
Project Report On  
"SYNTHESIS & CHARACTERIZATION OF  
SOME NEW AZO DYES"

Submitted By  
**MISS VAISHNAVI PAWAR**

Guided By  
**Prof. J.P.SONAWANE**

In Partial Fulfillment of The Degree of  
**MASTER OF Organic Chemistry**  
(M.Sc. Organic Chemistry)

Under  
**KAVAYITRI BAHINABAI CHAUDHARI NORTH  
MAHARASHTRA UNIVERSITY, JALGAON**

Submitted To



R.C.Patel Educational Trust's,  
**R.C. PATEL ARTS, COMMERCE & SCIENCE COLLEGE,**  
**SHIRPUR, 425 405 DIST. DHULE (M.S.)**  
**[2021-22]**



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

R. C. PATEL EDUCATIONAL TRUST

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.dpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No.:

Date: 12/07/2022

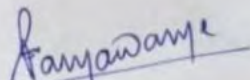
## CERTIFICATE

This is to certify that Miss Vaishnavi Pawar student of M.Sc. (Organic Chemistry) has completed her project work entitled "Synthesis & Characterization of Some New Azo Dyes" at "R.C. Patel Arts, Commerce & Science college, Shirpur" as part of M.Sc. (OC) curriculum for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-22.


This performance and the system are up to mark and we are satisfied with same.

Date: 12/07/2022

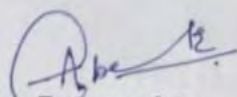
Place: Shirpur

  
Guide


Prof. J.P. Sonawane

  
Head Of Department  
(Chemistry)

Dr. J. P. Mahashabde

  
External 2



  
External 1



**“Synthesis and characterization of  $Pb_xCd_{1-x}S$  ( $x = 0.2, 0.4, 0.6, 0.8$ ) by Flux Method”**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**MASTER OF SCIENCE (M.Sc.)**  
In  
**Physics**

By  
**MISS. PATIL SNEHA PRAKASH**

UNDER THE GUIDANCE  
OF

**PROF. A. C. PATIL**



Department of Physics  
**R. C. Patel Arts, Commerce and Science College**  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

Affiliated to



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,**  
**JALGAON – 425 001**  
**2021-22**



R. C. Patel Educational Trust's

## **R. C. Patel Arts, Commerce & Science College**

Shirpur, Dist. Dhule. (M.S.)

### **CERTIFICATE**

#### **Department of Physics**

This is to certify that **Miss. Patil Sneha Prakash** has satisfactorily carried out project work entitled **“Synthesis and characterization of  $Pb_xCd_{1-x}S$  ( $x = 0.2, 0.4, 0.6, 0.8$ ) by Flux Method”** for the degree of **M.Sc. in Physics** as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year **2021-22**

*B. Babir*  
12/07/2022  
External Examiner

*Pratik*  
Project Guide



*ms*  
12/7/2022  
External Examiner

*B. Babir*  
Head of Department  
for **Head**  
Department of Physics  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

A  
Project Report  
On

**“SYNTHESIS AND OPTICAL PROPERTIES OF CdS THIN FILMS”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Master of Science in Physics**

Submitted By

**Miss. Gosavi Punam Parmeshwar**

**UNDER THE GUIDANCE OF**

**Prof.K.R.Pawar**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra.**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

Shirpur, Dist. Dhule (M.S)

**CERTIFICATE**

Department of Physics

This is to certified that **Gosavi Punam Parmeshwar**

Has satisfactorily carried out project work entitled **“SYNTHESIS AND OPTICAL PROPERTIES OF CdS THIN FILMS”**

for the degree of M.Sc. in Physics as laid down by KBC North Maharashtra University,

Jalgaon during Academic Year 2021-22.

*[Signature]*  
11/07/2022  
External Examiner

*[Signature]*  
Project Guide  
Prof.K.R.Pawar



*[Signature]*  
11/7/2022  
External Examiner

*[Signature]*  
for Head  
Department of Physics  
**Head**  
Department of Physics  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

**“SYNTHESIS AND STRUCTURAL PROPERTIES OF CdS SOLID SOLUTION  
PREPARED BY FLUX METHOD”**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**MASTER OF SCIENCE (M.Sc.)**  
In  
*Physics*

By  
**Patil Shraddha Bhausaheb**

UNDER THE GUIDANCE  
Of

**DR. A. M. PATIL**



**Department of Physics**  
**R. C. Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**Affiliated to**



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,**

**JALGAON – 425 001**

**2021-22**



R. C. Patel Educational Trust's

**R. C. Patel Art's, Commerce & Science College**

Shirpur, Dist. Dhule. (M.S.)

**CERTIFICATE**

Department of Physics

This is to certify that **Miss. Patil Shraddha Bhausaheb** has satisfactorily carried out project work entitled **“SYNTHESIS AND STRUCTURAL PROPERTIES OF CdS SOLID SOLUTION PREPARED BY FLUX METHOD”** for the degree of **M.Sc. in Physics** as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year 2021-22

External Examiner



Project Guide  
Dr. A. M. Patil

External Examiner

Head of Department  
R. C. Patel Arts, Comm. & Sci. College, Shirpur  
Department of Physics  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

**“SYNTHESIS AND STRUCTURAL PROPERTIES OF PbS SOLID  
SOLUTION PREPARED BY FLUX METHOD”**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**MASTER OF SCIENCE (M.Sc.)**  
In  
*Physics*

By  
**MISS. RAJPUT PRIYANKA DAGESING**

UNDER THE GUIDANCE  
Of

**DR. A. M. PATIL**



Department of Physics  
**R. C. Patel Arts, Commerce and Science College**  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

Affiliated to



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,  
JALGAON – 425 001  
2021-22**



R. C. Patel Educational Trust's

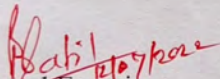
**R. C. Patel Arts, Commerce & Science College**

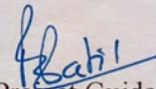
Shirpur, Dist. Dhule. (M.S.)

**CERTIFICATE**

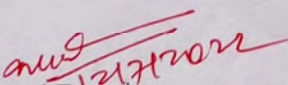
Department of Physics

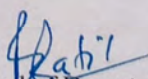
This is to certify that **Miss. Rajput Priyanka Dagesing** has satisfactorily carried out project work entitled **“SYNTHESIS AND STRUCTURAL PROPERTIES OF PbS SOLID SOLUTION PREPARED BY FLUX METHOD”** for the degree of **M.Sc. in Physics** as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year **2021-22**

  
External Examiner

  
Project Guide



  
External Examiner

  
for Head of Department  
R. C. Patel ACS College, Shirpur



**“SYNTHESIS AND STRUCTURAL PROPERTIES OF PbS SOLID  
SOLUTION PREPARED BY FLUX METHOD”**

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of  
**MASTER OF SCIENCE (M.Sc.)**  
In  
*Physics*

By  
**MISS. BAGAL VEDIKA JAGANNATH**

UNDER THE GUIDANCE  
Of

**DR. A. M. PATIL**



Department of Physics  
**R. C. Patel Arts, Commerce and Science College**  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

Affiliated to



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,  
JALGAON – 425 001  
2021-22**



R. C. Patel Educational Trust's

**R. C. Patel Arts, Commerce & Science College**

Shirpur, Dist. Dhule. (M.S.)

**CERTIFICATE**

**Department of Physics**

This is to certify that **Miss. Bagal Vedika Jagannath** has satisfactorily carried out project work entitled **“SYNTHESIS AND STRUCTURAL PROPERTIES OF PbS SOLID SOLUTION PREPARED BY FLUX METHOD”** for the degree of **M.Sc. in Physics** as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year **2021-22**

*Bagal*  
11/09/2022  
External Examiner

*Bagal*  
Project Guide



*Bagal*  
11/7/2022  
External Examiner

*Bagal*  
Head of Department  
**Department Of Physics**  
R. C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

A  
Project Report

On

**“SYNTHESIS AND OPTICAL PROPERTIES OF  $Pb_xCd_{1-x}S$  ( $0.05 \leq x \leq 0.25$ )  
THIN FILMS”**

Submitted to

**North Maharashtra University, Jalgaon**

For the award of the degree

**Master of Science in Physics**

Submitted By

**Miss Aarzoo Sayyed**

**UNDER THE GUIDANCE OF**

**Dr.A.M.Patil**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra.**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce & Science College

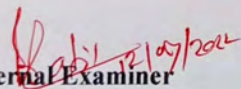
Shirpur, Dist. Dhule (M.S)

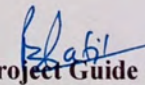
**CERTIFICATE**

Department of Physics

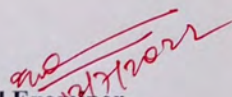
This is to certified that Miss Aarzoo Sayyed

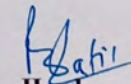
Has satisfactorily carried out project work entitled "**Synthesis  
and Optical Properties of  $Pb_xCd_{1-x}S$  ( $0.05 \leq x \leq 0.25$ ) Thin films**" for the  
degree of M.Sc. in physics as laid down by North Maharashtra University,  
Jalgaon during Academic Year 2021-22.

  
External Examiner

  
Project Guide  
Dr.A.M.Patil



  
External Examiner

  
Head

Department of Physics  
**Head**  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

A

Project Report

On

**“PREPARATION AND OPTICAL PROPERTIES OF  $\text{Fe}_2\text{O}_3$  THIN FILMS”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Master of Science in Physics**

Submitted By

**Mr. Pawara Manik Jagdish**



R C Patel Educational Trust

**UNDER THE GUIDANCE OF**

**Prof.K.M.Patil**

**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist– Dhule, Maharashtra.**

**2021-22**

1



R C Patel Educational Trust

**R. C. Patel Educational Trust's**

**R. C. Patel Arts, Commerce & Science College Shirpur,  
Dist. Dhule (M.S)**

**CERTIFICATE**

**Department of Physics**

**This is to certified that Mr. Pawara Manik Jagdish  
Has satisfactorily carried out project work entitled on**

**"PREPARATION AND OPTICAL PROPERTIES OF  $Fe_2O_3$  THIN FILMS"**

**for the degree of M.Sc. in Physics as laid down by KBC North  
Maharashtra University,**

**Jalgaon during Academic Year 2021-22.**

*Habil*  
External Examiner

*Kinnari*  
17/11/22  
Project Guide  
Prof. K. M. Patil



*Manik*  
External Examiner

*Habil*  
for Head  
Department of Physics

R. C. Patel ACS College, Shirpur  
Department Of Physics  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

Synthesis and Optical Properties of Lead Sulfide Thin  
Films Grown by Chemically Bath Deposition Method

A  
Project Report  
Submitted in partial fulfillment  
Of  
The requirement for the award of the degree  
Of

**Master of Science (M.Sc.)**

In

**Physics**

By

**BHADANE BHUMIKA BHIKA**

UNDER THE GUIDANCE

Of

**Dr. H. B. PATIL**



Department of Physics

**R. C Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist- Dhule, Maharashtra

**Affiliated to**



**KAVIYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERCITY,  
JALGAON – 425 001**

**2021 - 2022**



R. C. Patel Educational Trust's

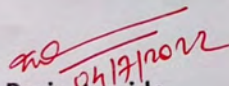
R. C. Patel Arts, Commerce and Science College

Shirpur, Dist. Dhule (M.S.)

## CERTIFICATE

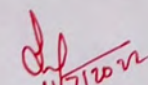
### Department of Physics

This is certified that **BHADANE BHUMIKA BHIKA** has satisfactorily carried out project work entitled "**Synthesis and Optical Properties of Lead Sulfide**" for the degree of M.Sc. in physics as laid down by KAVIYITRI BAHINABAI CHAUDHARI North Maharashtra University, Jalgaon during Academic Year 2021-2022.

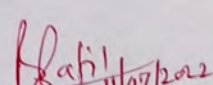
  
Project guide

Dr. H.B.Patil

  
Head  
Department of Physics  
R.C. Patel Arts, Comm. & Sci. College  
Shirpur, Dist. Dhule 425 405

  
External Examiner



  
Internal Examiner



**A PROJECT REPORT ON**

**“Study of Dielectric Properties of a Soils at  
Microwave Frequencies”**

**Submitted By**

**Miss. Shaikh Bushra Moinuddin**

**For**

**M.Sc. (Physics)**

**Under the Guidance of**

**Dr. Avinash A. Patil**

**Year – 2021-22**

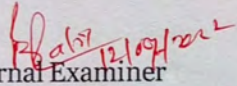
**Department of Physics**

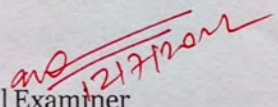
**R.C.Patel Arts, Commerce and Science College, Shirpur.**

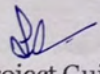
**Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.**

## CERTIFICATE

This is to certify that the project report titled "**Study of Dielectric Properties of Soils at Microwave Frequencies**" for M.Sc. (Physics) is a work carried out by Miss. Shaikh Bushra Moinuddin of M.Sc. Physics of R.C.Patel Arts, Commerce and Science College, Shirpur, for fulfillment of M.Sc. course of North Maharashtra University, Jalgaon under our supervision in the Department of Physics in the academic year 2021-22.

  
Internal Examiner

  
External Examiner

  
Project Guide  
(Dr. Avinash A. Patil)



  
for Head  
**Head**  
**Department Of Physics**  
R.C.Patel Arts, Com.& Sci.College  
Shirpur, Dist. Dhule 425 405

Date: 23/06/2022

Place: Shirpur.

A  
Project Report

On

“SOLAR SIMULATOR “

(SOLAR CELL CHARACTERISATION UNIT)

Submitted to



Kaviyatri Bahinabai Chaudhari North Maharashtra University, Jalgaon

For the award of the degree M.sc in Physics

Submitted by

Miss. PATIL DIVYA ANIL

UNDER THE GUIDANCE OF



Prof. H. B. Patil

Department of Physics

R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist.-Dhule, Maharashtra.



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce & Science College  
Shirpur, Dist. Dhule

**CERTIFICATE**

Department of Physics

This is to certified that **PATIL DIVYA ANIL**  
Has satisfactorily carried out project work entitled "**SOLAR SIMULATOR**"  
for the degree of M.Sc. in physics as laid down by Kaviyatri Bahinabai  
Chaudhari  
North Maharashtra University,  
Jalgaon during Academic Year 2021-2022.

External Examiner

Project Guide

Prof. H. B. Patil

College seal

External Examiner

Head

Department of Physics

R. C. Patel ACS College Shirpur  
Department of Physics  
R.C.Patel Arts, Com. & Sci. College  
Shirpur, Dist. Dhule 425 405

“Synthesis and characterization of  $Pb_xCd_{1-x}S$  ( $x = 0.1, 0.3, 0.5, 0.7, 0.9$ ) by Flux Method”

A

Project Report

Submitted in partial fulfillment

Of

The requirement for the award of the degree

Of

**MASTER OF SCIENCE (M.Sc.)**

In

*Physics*

By

**Patil Ashwini Nimbaji**

UNDER THE GUIDANCE

OF

**PROF. A. C. PATIL**



**Department of Physics**

**R. C. Patel Arts, Commerce and Science College**

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**Affiliated to**



**KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY,**

**JALGAON – 425 001**

**2021-22**



R. C. Patel Educational Trust's

**R. C. Patel Art's, Commerce & Science College**

Shirpur, Dist. Dhule. (M.S.)

**CERTIFICATE**

**Department of Physics**

This is to certify that **Miss. Patil Ashwini Nimbaji** has satisfactorily carried out project work entitled “ **Synthesis and characterization of  $Pb_xCd_{1-x}S$  ( $x = 0.1, 0.3, 0.5, 0.7, 0.9$ ) by Flux Method** ” for the degree of **M.Sc. in Physics** as laid down by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon during Academic Year 2021-22

External Examiner

Project Guide

Prof. A. C. Patil

External Examiner

Head of Department



A  
Project Report  
On  
**“SYNTHESIS AND OPTICAL PROPERTIES OF PbS THIN FILMS”**

Submitted to

**KBC North Maharashtra University, Jalgaon**

For the award of the degree

**Master of Science in Physics**

Submitted By

**Miss. Patil Jayshree Manohar**

**UNDER THE GUIDANCE OF**

**Prof.K.R.Pawar**



**Department of Physics**

**R. C Patel Arts, Commerce and Science College**

**Karwand Naka, Shirpur 425405, Dist- Dhule, Maharashtra.**



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce & Science College  
Shirpur, Dist. Dhule (M.S)

**CERTIFICATE**

Department of Physics

This is to certified that **Patil Jayshree Manohar**  
Has satisfactorily carried out project work entitled **“SYNTHESIS AND  
OPTICAL PROPERTIES OF PbS THIN FILMS”**  
for the degree of M.Sc. in physics as laid down by KBC North Maharashtra  
University,  
Jalgaon during Academic Year 2021-22.

*Patil*  
External Examiner  
12/09/2022

*K.R. Pawar*  
Project Guide  
Prof. K.R.Pawar

College seal

*Patil*  
External Examiner

*Patil*  
for Head  
Department of Physics  
R.C.Patel ASC College, Shirpur  
**Head**  
Department of Physics  
R.C.P.



R. C. Patel Arts Commerce and Science College, Shirpur  
2021-2022



Department of Computer Science  
A Project Report  
On  
Healthcare Facility Management Solution  
For  
Yashodip Ayurveda Shirpur  
Submitted To  
North Maharashtra University, Jalgaon  
In Partial Fulfillment of the Degree of  
Master Of  
Computer Science  
MSc (Computer Science)  
SUBMITTED BY:  
Miss. Rajput Priyanka Udaysing  
-Project Guide –  
Prof. Mr.S. D. Mone



R. C. PATEL EDUCATIONAL TRUST  
\*\*\*\*\*

R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎ (02563)257328, 257329 Fax No : 256170,255189  
E-mail: dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No. RCP: / /

Date: 16/06/2022

### CERTIFICATE

This is to certify that Miss. Rajput Priyanka student of M.sc-II has completed her project work entitled "Healthcare Facility Management Solution" as part of M.Sc. Project for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-2022.

This Performance and the system are up to mark and we are satisfied with the same.

Date:

Place: Shirpur

Guide

Prof. Mr. S. D. Mone



Head of Department

Prof. Mr. B. S. Panchbhai

External 1

External 2

R. C. Patel Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Ph. No. : (02563) 257328, 257329 Fax: (02563) 255189 e-mail: contact@rcpasc.ac.in

R. C. Patel Arts Commerce and Science College, Shirpur

2021-2022



Department of Computer Science

A Project Report

On

News Feed Application

Submitted To

North Maharashtra University, Jalgaon

In Partial Fulfillment of the Degree of

Master Of

Computer Science

MSc (Computer Science)

SUBMITTED BY:

Mr. Chaudhari Shubham Lotan

-Project Guide –

Prof.Mr.S. D. Mone



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.drpabl@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No. RCP: / /

Date: 16/06/2022

### CERTIFICATE

This is to certify that Mr. Chaudhari Shubham student of M.sc-II has completed her project work entitled "News Feed Application" as part of M.Sc. Project for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-2022.

This Performance and the system are up to mark and we are satisfied with the same.

Date:

Place: Shirpur

Guide  
Prof. Mr. S. D. Mone



Head of Department  
Prof. Mr. B. S. Panchbhai

External 1

External 2

R. C. Patel Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Ph. No. ☎ (02563) 257328, 257329 Fax. (02563) 255189 e-mail: contact@rcpasc.ac.in

R. C. Patel Arts Commerce and Science College, Shirpur  
2021-2022



Department of Computer Science  
A Project Report  
On  
Student Attendance Management System  
For  
H.R.Patel ACS College Shirpur  
Submitted To  
North Maharashtra University, Jalgaon  
In Partial Fulfilment of the Degree of  
Master Of  
Computer Science  
MSc (Computer Science)  
SUBMITTED BY:  
Miss. Shinde Jaya Mahendra  
-Project Guide –  
Prof. Mr. S. D. Mone



R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel  
Principal  
Dr. D. R. Patil

Outward No. RCP: / /

Date: 16/06/2022

### CERTIFICATE

This is to certify that Miss. Shinde Jaya student of M.sc-II has completed her project work entitled "Student Attendance management system" as part of M.Sc. Project for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-2022.

This Performance and the system are up to mark and we are satisfied with the same.

Date:

Place: Shirpur

Guide

Prof. Mr. S. D. Mone



Head of Department

Prof. Mr. B. S. Panchbhai

External 1

External 2

R. C. Patel Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Ph. No. ☎. (02563) 257328, 257329 Fax. (02563) 255189 e-mail: contact@rcpasc.ac.in

R. C. Patel Arts Commerce and Science College, Shirpur  
2021-2022



Department of Computer Science

A Project Report

On

Online Food ordering system

For

Swiggy

Submitted To

North Maharashtra University, Jalgaon

In Partial Fulfilment of the Degree of

Master Of

Computer Science

MSc (Computer Science)

SUBMITTED BY:

Miss. Dhakad Nisha Kailas

-Project Guide –

Prof. Mr. B. S. Panchbhai



C. PATEL EDUCATIONAL TRUST

R. C. Patel Educational Trust's  
R. C. Patel Arts, Commerce and Science College  
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563)257328, 257329 Fax No.: 256170-255189  
E-mail: dr.drpatil@gmail.com

President  
Hon. Bhupeshbhai Patel

Principal  
Dr. D. R. Patil

Outward No. RCP: / /

Date: 6/06/2022

### CERTIFICATE

This is to certify that Miss. Dhakad Nisha student of M.sc-II has completed her project work entitled "Online food Ordering system " as part of M.Sc. Project for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-2022.

This Performance and the system are up to mark and we are satisfied with the same.

Date:

Place: Shirpur

Guide  
Prof. Mr. B. S. Panchbhai



Head of Department  
Prof. Mr. B. S. Panchbhai

External 1

External 2

R. C. Patel Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Ph. No. ☎ (02563) 257328, 257329 Fax. (02563) 255189 e-mail: contact@rcpsc.ac.in



R. C. Patel Arts Commerce and Science College, Shirpur

2021-2022



Department of Computer Science

A Project Report

On

Electronic Authentication system

Submitted To

North Maharashtra University, Jalgaon

In Partial Fulfilment of the Degree of

Master Of

Computer Science

MSc (Computer Science)

SUBMITTED BY:

Miss. Patil Ashwini Nageshwar

-Project Guide –

Prof. Mr. B.S.Panchbhai



R. C. Patel Educational Trust's  
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Outward No. RCP: / /

Date: 16/06/2022

### CERTIFICATE

This is to certify that Miss. Patil Ashwini student of M.sc-II has completed her project work entitled "**Electronic Authentication System**" as part of M.Sc. Project for Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon under our guidance during the academic year 2021-2022.

This Performance and the system are up to mark and we are satisfied with the same.

Date:

Place: Shirpur

Guide  
Prof. Mr. B. S. Panchbhai



Head of Department  
Prof. Mr. B. S. Panchbhai

External 1

External 2

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Page

Topic

2021-2022

# Shaikh Rahnuma bi Zakia

FyBSC

Plain B B

Roll No : [ 468 ]

Environment Project

Seat No :- 316129

and  
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12/03/2022

External Examiner

Internal Examiner.

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Topic: 2021-2022

Name :- Sakshi Yograj  
Patil

Standard :- F.Y. BSc

Roll no :- 313

Subject :- Environment

Seat No . :- 316025



*me*  
23/2/2022  
(External Examiner)

*m. wari*  
23/02/2022  
(Internal Examiner)