

Dapoli Education Society's
Dapoli Urban Bank Senior Science Collage Dapoli
Department: Physics
Academic Year: 2022-23

T.Y.B.Sc. 2022-23 Student Project Record

Sr. No.	Name of Student	Roll No.	Project Name	Name of Guide	Subject to which Project Related
1	Divya Kelkar	TYB.Sc	1.Synthesis of Cobalt, Zinc, Ferrite ($Co_{1-x}Zn_xFe_2O_4$) by co-precipitation method 2.Simulation of crystal plane by using C++ Language	Digambar D. Kulkarni	Solid State Physics (USPH 502)
2	Krutarth Bodas	TYB.Sc	Synthesis of Cobalt, Zinc, Ferrite ($Co_{1-x}Zn_xFe_2O_4$) by co-precipitation method	Digambar D. Kulkarni	Solid State Physics(USPH 502)
3	Shivtej Shivaji Patil	TYB.Sc	Uses of smartphone in physics experiments	Digambar D. Kulkarni	Solid State Physics(USPH 502)
4	Pranav Sanjay Jadhav	TYB.Sc	Uses of smartphone in physics experiments	Digambar D. Kulkarni	Solid State Physics(USPH 502)
5	Afsana Maniyar	TYB.Sc	Synthesis of Cobalt, Zinc, Ferrite ($Co_{1-x}Zn_xFe_2O_4$) by sol-gel method	Digambar D. Kulkarni	Solid State Physics(USPH 502)
6	Uzma Mungruskar	TYB.Sc	Synthesis of Cobalt, Zinc, Ferrite ($Co_{1-x}Zn_xFe_2O_4$) by sol-gel method	Digambar D. Kulkarni	Solid State Physics
7	Rushikesh Kotlukkar	TYB.Sc	comparative study between co-precipitation and sol-gel synthesis method for the preparation of cobalt zinc ferrite ($Co_{(1-x)}Zn_xFe_2O_4$)	Digambar D. Kulkarni	Solid State Physics(USPH 502)
8	Shriraj Rohilkar	TYB.Sc	Hydrogen fuel is future energy	Aniket A. Nandiskar	Thermodynamics

2. Avishkar Project Record :-

Sr. No.	Name of Project	Name of Students	Name of Guide
Zonal Level Project			
1	Synthesis of Cobalt Zinc Ferrites by Sol- Gel Method	Uzma Mungruskar, Afsana Maniyar	Digambar D. Kulkarni
2	Synthesis of Cobalt Zinc Ferrites by Co-Precipitation Method	Divya Kelkar, Krutarth Bodas	Digambar D. Kulkarni
3	Use of Smartphone in Science Laboratory	Shivtej Patil, Diksha Lingayat	Digambar D. Kulkarni
University Level Project			
1	Synthesis of Cobalt Zinc Ferrites by Co-Precipitation Method	Divya Kelkar, Krutarth Bodas	Digambar D. Kulkarni
2	Use of Smartphone in Science Laboratory	Shivtej Patil, Diksha Lingayat	Digambar D. Kulkarni


Head Dept. of Physics

Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri


Principal

Dapoli Education Society's
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics


CERTIFICATE

Sem V/VI

This is to certify that Mr/Miss Uzma Mungruskar has satisfactory carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by Sol-Gel Method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 16 APR 2022 - 16 APR 2023


Name of Faculty (Project Guide)
Digambar D. Kulkarni


Head of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri
Department of Physics

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE


Sem ~~V~~/VI

This is to certify that Mr./Miss Shiraj Rohilkar has satisfactory carried out the required project work named *Hydrgen Fuel is Future Energy* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 16 APR 2023

Name of Faculty (Project Guide)
Aniket A Nandiskar


Head Dept. of Physics
Department of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem ~~V~~/VI

This is to certify that Mr./Miss Rushikesh Kotlukkar has satisfactory carried out the required project work named *Comparative study between Precipitation and sol-gel synthesis method for the preparation of cobalt zinc ferrite* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 16 APR 2023

Name of Faculty (Project Guide)

Digambar D. Kulkarni

Head
Head Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri
Department of Physics

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/VI

This is to certify that Mr./ Miss Afsana Maniyar has satisfactorily carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by Sol-Gel Method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- '6 APR 2023

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head
Head Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem X/VI

This is to certify that mr./Miss Shivtej Shivaji Patil has satisfactory carried out the required project work named *Uses of smartphone in Physics Experiments* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 6 APR 2023

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head
Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem ~~V~~/VI

This is to certify that Krutarth Prasad Bodas has satisfactory carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by co-precipitation method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his/her bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 6 APR 2023

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head
Head Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem ~~V~~/VI

This is to certify that Mr/Miss Divya Hemant Kelkar has satisfactory carried out the required project work named *Simulation of crystal plane by using C++ Language* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his/her bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 6 APR 2023

Name of Faculty (Project Guide)

Digambar D. Kulkarni

Head of Department of Physics
Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/VI

This is to certify that Mr./Miss Rushikesh Kotlukkar has satisfactory carried out the required project work named *Comparative study between Coprecipitation and sol-gel synthesis method for the preparation of cobalt zinc ferrite* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date : 2 NOV 2022

Name of Faculty (Project Guide)

Digambar D. Kulkarni

Head Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri
Department of Physics

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/VI

This is to certify that Mr/Miss Uzma Mungruskar has satisfactorily carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_xFe_2O_4$) by Sol-Gel Method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- **2 NOV 2022**

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head
Head Dept. of Physics
Department of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/XI

This is to certify that Mr./ Miss Afsana Maniyar has satisfactorily carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by Sol-Gel Method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

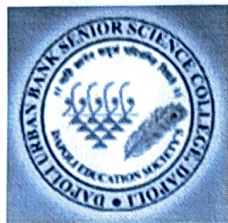
Date :- 2 NOV 2022

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/VI

This is to certify that Mr. Pranav Sanjay Jadhav has satisfactorily carried out the required project work named *Uses of smartphone in Physics Experiments* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 2 NOV 2022

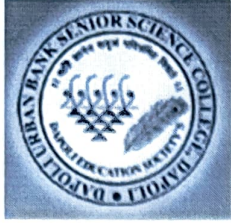
Name of Faculty (Project Guide)

Digambar D. Kulkarni

Head Dept. of Physics
Department of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/YI


This is to certify that Mr./Miss . Krutarth Prasad Bodas has satisfactory carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by co-precipitation method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his/her bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 12 NOV 2022

Name of Faculty (Project Guide)

Digambar D. Kulkarni


Head
Dept. of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



UNIVERSITY OF MUMBAI

DAPOLI URBAN BANK SENIOR SCIENCE COLLEGE DAPOLI

DIST:- RATNAGIRI

Department of Physics

CERTIFICATE

Sem V/VI

This is to certify that Miss/Mr. Divya Hemant Kelkar has satisfactorily carried out the required project work named *Synthesis of Cobalt Zinc Ferrite ($Co_{1-x}Zn_x Fe_2O_4$) by co-precipitation method* prescribed by University of Mumbai for T.Y.B.Sc.in Physics and this project represents his/her bonafide work in the academic year 2022-23

Place :- Dapoli

Date :- 12 NOV 2022

Name of Faculty (Project Guide)
Digambar D. Kulkarni

Head of Department of Physics
Dapoli Urban Bank Senior Science College
Dapoli, Dist. Ratnagiri

Examiner 1:-

Examiner 2:-



University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mrs. Kelkar Divya** - of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **Synthesis of Cobalt Zinc Ferrites by Co- Precipitation Method** in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai

Dr. Sunil Patil
Director,
Department of Students' Development,
University of Mumbai

December 19, 2022
Lanja, Dist.-Ratnagiri





University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mr. Bodas Krutharth** - of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **Synthesis of Cobalt Zinc Ferrites by Co- Precipitation Method** in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

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University of Mumbai

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Lanja, Dist.-Ratnagiri





University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mrs. Uzma Mungruska** - of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **Synthesis And Characterization of Cobalt Zinc Ferrite (Co_{1-x}Zn_xFe₂O₄) by Sol-Gel Method** in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

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December 19, 2022
Lanja, Dist.-Ratnagiri





University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mrs. Maniyar Afsana** - of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **Synthesis And Characterization of Cobalt Zinc Ferrite (Co_{1-x}Zn_xFe₂O₄) by Sol-Gel Method** in **Pure Sciences** Category and **UG Level** at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

Dr. Minakshi Gurav
OSD,
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Dr. Sunil Patil
Director,
Department of Students' Development,
University of Mumbai

December 19, 2022
Lanja, Dist.-Ratnagiri





University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mr. Patil Shivtej Shivaji** of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **USES OF SMARTPHONE IN PHYSICS EXPERIMENTS** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai

Dr. Sunil Patil
Director,
Department of Students' Development,
University of Mumbai

December 19, 2022
Lanja, Dist.-Ratnagiri





University of Mumbai

17th
Aavishkar

Inter-Collegiate/Institute/Department Research Convention

(Zonal Round)

Academic Year 2022-23

Certificate of Participation

This is to Certify that **Mrs. Diksha Lingayat** of **Dapoli Urban Bank Senior Science College, Dapoli** has participated and presented a Research Project titled **USES OF SMARTPHONE IN PHYSICS EXPERIMENTS** in **Engineering and Technology** Category and **UG** Level at 17th Aavishkar: Inter-Collegiate/Institute/Department Research Convention (Zonal Round) organized by the University of Mumbai at Arts, Commerce and Science College, Lanja, Dist.-Ratnagiri on December 19, 2022 for **Ratnagiri** zone.

Dr. Minakshi Gurav
OSD,
Aavishkar,
University of Mumbai

Dr. Sunil Patil
Director,
Department of Students' Development,
University of Mumbai

December 19, 2022
Lanja, Dist.-Ratnagiri

