



Government City College (A)
Nayapul, Hyderabad
Affiliated to Osmania University
Accredited with B⁺⁺ Grade & CGPA 2.76
<https://gdcts.cgg.gov.in/charminar.edu>



CRITERIA-I

1.3 Curriculum Enrichment

1.3.3 Percentage of Programs that have components of field projects / research projects internships

SAMPLE EVALUATED PROJECTS


PRINCIPAL
Govt. City College
Nayapul, Hyderabad-500

**Government City College (A), Hyderabad
Department of Physics Jignasa Projects**


2018-19

STUDENT GROUP STUDY PROJECT REPORT ON
“Automatic Power Control in a Room with Visitor Counter”
 Submitted to the Collegiate Education for Jignasa –
 Student study projects in Degree Colleges
 For the academic year 2018 -19

Submitted by


| S.No. | Name of the student | Roll Number |
|-------|---------------------|-------------------|
| 1 | P. Maheshwari | 1601-1084-474-019 |
| 2 | B. Bharath Teja | 1601-1084-474-002 |
| 3 | S. Gathrika | 1601-1084-474-022 |
| 4 | K. Madhu Kumar | 1601-1084-474-007 |
| 5 | V. Aparna | 1601-1084-474-023 |
| 6 | M. Lakshman | 1601-1084-474-011 |

Under the supervision of
Dr. D. CHINNI KRISHNA



DEPARTMENT OF PHYSICS,
 GOVERNMENT CITY COLLEGE (A),
 NAYAPUL, HYDERABAD – 500 002

Affiliated to Osmania University
 Re-Accredited with A Grade & Re -Re -Accredited with ‘B’ Grade by NAAC.

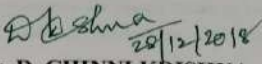

Government City College, Hyderabad
 (Autonomous)
 Affiliated to Osmania University, Re-Accredited with 'A' Grade by NAAC
 Re-Accredited with A Grade & Re -Re -Accredited with 'B' Grade by NAAC.


CERTIFICATE

This is to certify that the group study project report on **“AUTOMATIC POWER CONTROL IN A ROOM WITH VISITOR COUNTER”** Submitted to the Collegiate Education for Jignasa –student study projects in Degree Colleges for the academic year 2018 -19 by the students as given below

Roll No.s & Names: 1601-1084-474-019; P. Maheshwari
 1601-1084-474-002; B. Bharath Teja
 1601-1084-474-022; S. Gathrika
 1601-1084-474-007; K. Madhu Kumar
 1601-1084-474-023; V. Aparna
 1601-1084-474-011; M. Lakshman

of Department of Physics, Government City College (A), Hyderabad were carried out the above project under my supervision in the academic year 2018-19. It is the original work in its contents and it was not published anywhere else.


Dr. D. CHINNI KRISHNA
 (Project supervisor & In charge Dept. of Physics)


PRINCIPAL
 Govt. City College,
 Nayapul, Hyderabad.

Jignasa 2018 Physics Projects state level presentation certificates received by our Govt. City College students on 5.2.2019 at A.V. College, Domalguda, Hyderabad on 5.2.2019



2021-22

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous) Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC (CGPA of 2.73)



CERTIFICATE

This is to certify that the project work entitled “ The Role of Physics in Criminal Investigation: An Empirical study (Government City College)” is an academic work done by the following students of Government City College so as to submit in JIGNASA-2022 programme which is being organized by the Commissionerate of collegiate education. The following students have analyze the academic needs and developed the project to meet the requirements of the College Students under the guidance of **Dr.S.E.Naina Vinodini.**

| S.No | Roll Number | Name of the Student | Group | Signature |
|------|-----------------|---------------------|--------------|-----------|
| 1 | 1084-19-441-070 | S.Sai Vineeth | MPC III Year | |
| 2 | 1084-19-441-073 | Vamshi Kumar | MPC III Year | |
| 3 | 1084-19-441-055 | M.Dileep Kumar | MPC III Year | |
| 4 | 1084-19-441-047 | K.Pushpalatha | MPC III Year | |
| 5 | 1084-19-441-011 | B.Sirivennela | MPC III Year | |
| 6 | 1084-19-441-067 | Sk.Shameena | MPC III year | |

Head, Dept. of Physics

PRINCIPAL



CCE, TS



JIGNASA - 2021-22
STUDENT STUDY PROJECTS



RUSA

2nd Prize
Physics

Government City College (A), Nayapul

Pay

₹ 21,000/-

(Rupees Twenty One Thousand only)

Sponsored by
State Project Directorate, RUSA

Commissioner
Collegiate Education

JIGNASA 2022-23
STUDENT STUDY PROJECT



A Facile Synthesis of Silver Nanoparticles using Terminalia Chebula Fruit extract and Antibacterial activity with Musi-Water



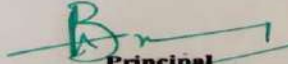
DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE (A)
NAYAPUL, HYDERABAD

DECLARATION

This is to certify that the student study project report on "A Facile Synthesis of Silver Nanoparticles using Terminalia Chebula Fruit extract and Antibacterial activity with Musi-Water" submitted by the students as given below to the CCE for JIGNASA-2022-23-Student Study Project- Department of Physics, Government City College (A), Hyderabad were carried out the above project under the guidance of Dr.Parvathalu Kalakonda. It is the original work in its contents and it was not published anywhere.

| NAME OF THE STUDENT | GROUP | SIGNATURE |
|---------------------|-------------|----------------|
| S.VAISHNAVI | III BSC MPC | S.Vaishnavi |
| B.NAVEEN KUMAR | II BSC MPCs | B.Naveen kumar |
| B.KARTHIK | III BSC MPC | B.Karthik |
| K.HRUTHIK SAI | III BSC MPC | K.Hruthik Sai |
| J. VIJENDAR | II BSC MPC | J.Vijendar |

Supervisor 
Department of Physics


Principal
PRINCIPAL
Govt. City College
Nayapul, Hyderabad-02

**Government City College (A), Hyderabad
Department of Physics
PG Research Projects**

2018-19

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY
PATEL AJAY KUMAR

UNDER THE SUPERVISION OF
B.SRINIVAS

Assistant professor of Physics

**DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE**
Autonomous & Affiliated to Osmania University
Nayapul, Hyderabad-500002

MAY 2019

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD
OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY
KISTAGARI SAIKIRAN REDDY

UNDER THE SUPERVISION OF
J.BHEEMA RAJAM
Assistant professor of Physics

DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE
Autonomous & Affiliated to Osmania University
Nayapul, Hyderabad-500002


MAY 2019

2019-20

PROJECT REPORT ON
"WATER LEVEL CONTROL WITH AC OUTPUT CONNECTION"
Submitted in the partial fulfillment for the requirement of the award of degree
 MSc - IV Semester
 Academic Year : 2019-20
 Submitted by

| S.No | Name of the Student & Group | Roll Number |
|------|-----------------------------|-----------------|
| 1 | M.MAMATHA | 1084-18-509-002 |
| 2 | SK SHARHEN | 1084-18-509-016 |
| 3 | V.MOUNIKA | 1084-18-509-019 |
| 4 | C.AVINASH | 1084-18-509-023 |
| 5 | G.YELLAIAH | 1084-18-509-027 |
| 6 | E.JAMES ABISHEK | 1084-18-509-028 |

Under the supervision of
Mr. A. SUDARSHAN
 In charge, Department of Physics




GOVERNMENT CITY COLLEGE (A), HYDERABAD
 Affiliated to Osmania University
 Re-Accredited with 'B++' Grade by NAAC.

PROJECT REPORT ON
SIMPLE BATTERY LEVEL INDICATOR
Submitted in the partial fulfillment for the requirement of the award of degree
 MSc -IV Semester
 Academic Year :2019-20
 Submitted by

| S.No | Name of the Student & Group | Roll Number |
|------|-----------------------------|-----------------|
| 1 | A.SHIRISHA | 1084-18-509-009 |
| 2 | CH. ANIL KUMAR | 1084-18-509-020 |
| 3 | L.NAGARANI | 1084-18-509-008 |
| 4 | B.VINITHA | 1084-18-509-021 |
| 5 | CH. RAJU | 1084-18-509-013 |
| 6 | G.PRAVEEN KUMAR | 1084-18-509-018 |

Under the supervision of
Mr. A. SUDARSHAN
 In charge, Department of Physics




GOVERNMENT CITY COLLEGE (A), HYDERABAD
 Affiliated to Osmania University
 Re-Accredited with 'B++' Grade by NAAC.

PROJECT REPORT ON
" IC 555 Delay timer"
Submitted in the partial fulfillment for the requirement of the award of degree
 MSc - IV Semester
 Academic Year : 2019-20
 Submitted by

| S.No | Name of the Student & Group | Roll Number |
|------|-----------------------------|-----------------|
| 1 | V. PRADEEP | 1084-18-509-012 |
| 2 | V. SRIHARI | 1084-18-509-023 |
| 3 | B. SRAVANTHI | 1084-18-509-024 |
| 4 | P. BHARATHI | 1084-18-509-017 |
| 5 | G. LATHA | 1084-18-509-003 |
| 6 | V. KUMAR | 1084-18-509-025 |

Under the supervision of
Mr. A. SUDARSHAN
 In charge, Department of Physics




GOVERNMENT CITY COLLEGE (A), HYDERABAD
 Affiliated to Osmania University
 Re-Accredited with 'B++' Grade by NAAC.

PROJECT REPORT ON
 Topic: **"AUTOMATIC NIGHT LIGHT"**
Submitted in the partial fulfillment for the requirement of the award of degree
 MSc - IV Semester
 Academic Year : 2019-20
 Submitted by



| S.No | Name of the Student & Group | Roll Number |
|------|-----------------------------|-----------------|
| 1 | P. SHIVA KUMAR | 1084-18-509-001 |
| 2 | B. VEENA | 1084-18-509-004 |
| 3 | B.USHASWINI | 1084-18-509-006 |
| 4 | A.PRASHANTHI | 1084-18-509-008 |
| 5 | M.JANARDHAN | 1084-18-509-010 |
| 6 | G.NIKITHA | 1084-18-509-015 |

Under the supervision of
Mr. A. SUDARSHAN
 In charge, Department of Physics



GOVERNMENT CITY COLLEGE (A), HYDERABAD
 Affiliated to Osmania University
 Re-Accredited with 'B++' Grade by NAAC.

2020-21

Title of the Project

NDT of Solid Rocket Motors using Acousto Ultrasonic Methods

By

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|-------------|
| 1 | 1084-21-509-008 | A.Swetha | MSc II Year |
| 2 | 1084-21-509-015 | S.Veena kumari | MSc II Year |
| 3 | 1084-21-509-037 | Ch.Sathwika | MSc II Year |
| 4 | 1084-21-509-039 | M.Sharath kumar | MSc II Year |

A Dissertation Submitted to the Faculty of Department of Physics, Government City College (A), Hyderabad in partial fulfillment of the requirement for the Degree of Master of Science in Physics under the Supervision of

EXTERNAL GUIDE

Dr.K.SRINIVAS, SCIENTIST -G Directorate of R&QA
ADVANCED SYSTEMS LABORATORY
Defence Research & Development Organisation
Government of India, Ministry of Defence

INTERNAL GUIDE

Dr.K.Parvathalu Asst. Professor of Physics, GCC
Government City College, Dept. of Physics

1


CERTIFICATE


This is to certify that the project work entitled "**NDT of Solid Rocket Motors using Acousto Ultrasonic Methods**" is an academic work done by the following students of II M.Sc. so as to submit as part of curriculum in semester IV. The following students have completed the assigned project as per the academic needs to meet the requirements of the College under my guidance.

| S.No | Roll Number | Name of the Student | Group | Signature |
|------|-----------------|---------------------|-------------|-----------|
| 1 | 1084-21-509-008 | A.Swetha | MSc II Year | |
| 2 | 1084-21-509-015 | S.Veena kumari | MSc II Year | |
| 3 | 1084-21-509-037 | Ch.Sathwika | MSc II Year | |
| 4 | 1084-21-509-039 | M.Sharath kumar | MSc II Year | |

Dr. K.Parvathalu

Dr.K.SRINIVAS,


PRINCIPAL


Dr. D. MADHURI
Assistant Professor
University College of Science
Osmania University,
Hyderabad-500 007, T.S.

Head of the Dept. of Physics,
Govt. City College,
HYDERABAD-500092.

2021-22

**FINE GRAINED MgCu FERRITE WITH IONIC
SUBSTITUTIONS USED AS HUMIDITY SENSOR**

Dissertation Submitted to the

GOVERNMENT CITY COLLEGE

(Autonomous)

Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC

*In Partial Fulfilment of
The requirement for the award of the degree of*

**MASTER OF SCIENCE
IN
PHYSICS**

Under the Supervision and Guidance of

Dr.K.SADHANA

Student Supervisor

| S.No | Roll Number | Name of the Student | Group |
|-------------|--------------------|----------------------------|--------------|
| 1. | 1084-20-509-010 | Manduri Gopi Kishan | M.Sc Physics |
| 2. | 1084-20-509-047 | Karre Sampath Reddy | M.Sc Physics |
| 3. | 1084-20-509-005 | Navile Mounika | M.Sc Physics |
| 4. | 1084-20-509-022 | Gavini Chandrakala | M.Sc Physics |
| 5. | 1084-20-509-008 | A.Mamatha | M.Sc Physics |
| 6. | 1084-20-509-027 | Lingala Anuradha | M.Sc Physics |



**DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE
HYDERABAD - 500 002
NOVEMBER 2022**

DECLARATION

We hereby declare that the dissertation entitled "**Fine Grained MgCu Ferrite with Ionic Substitutions used as Humidity Sensor** " submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|--------------|
| 1. | 1084-20-509-010 | Manduri Gopi Kishan | M.Sc Physics |
| 2. | 1084-20-509-047 | Karre Sampath Reddy | M.Sc Physics |
| 3. | 1084-20-509-005 | Navile Mounika | M.Sc Physics |
| 4. | 1084-20-509-022 | Gavini Chandrakala | M.Sc Physics |
| 5. | 1084-20-509-008 | A.Mamatha | M.Sc Physics |
| 6. | 1084-20-509-027 | Lingala Anuradha | M.Sc Physics |

Signatures.

1. M. Gopi kishan.
2. K. Sampath Reddy
3. N. Mounika
4. G. chandrakala
5. A. Mamatha
6. L. Anuradha.

Date: 28-11-2022

Place: Hyderabad - 500 002

Dr.K.Sadhana

Student Supervisor

Head , Department of Physics

PG Science College , Saifabad

Hyderabad - 500 004



CERTIFICATE OF SUPERVISOR

We declare that the dissertation entitled “**Fine Grained MgCu Ferrite with Ionic Substitutions used as Humidity Sensor**”, submitted for the degree of Master of Science in Physics is the record of research work carried out by -

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|--------------|
| 1. | 1084-20-509-010 | Manduri Gopi Kishan | M.Sc Physics |
| 2. | 1084-20-509-047 | Karre Sampath Reddy | M.Sc Physics |
| 3. | 1084-20-509-005 | Navile Mounika | M.Sc Physics |
| 4. | 1084-20-509-022 | Gavini Chandrakala | M.Sc Physics |
| 5. | 1084-20-509-008 | A.Mamatha | M.Sc Physics |
| 6. | 1084-20-509-027 | Lingala Anuradha | M.Sc Physics |

During the period July 2021 to November 2022 under my guidance and supervision this work has not formed the basis for the, has not formed the basis for the award of any other Degree, Diploma, Associateship, Fellowship or other titles in this university or institution of higher learning.

Date: 28-11-2022

Place: Hyderabad - 500 002.

Head of the Dept. of Physics,
Govt City College,
HYDERABAD-500002,

Dr.K.SADHANA

(STUDENT SUPERVISOR)

HEAD

Department of Physics
University College of Science
Saifabad, (O.U.), Hyderabad-500 004 2

CERTIFICATE OF EXAMINER

We hereby declare that the dissertation entitled "**Fine Grained MgCu Ferrite with Ionic Substitutions used as Humidity Sensor** " submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|--------------|
| 1. | 1084-20-509-010 | Manduri Gopi Kishan | M.Sc Physics |
| 2. | 1084-20-509-047 | Karre Sampath Reddy | M.Sc Physics |
| 3. | 1084-20-509-005 | Navile Mounika | M.Sc Physics |
| 4. | 1084-20-509-022 | Gavini Chandrakala | M.Sc Physics |
| 5. | 1084-20-509-008 | A.Mamatha | M.Sc Physics |
| 6. | 1084-20-509-027 | Lingala Anuradha | M.Sc Physics |

Date: 28-11-2022

Place: Hyderabad - 500 002


EXAMINER

**STUDY OF STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES
OF RARE EARTH Ce³⁺ AND Nd³⁺ ION DOPED Ni-Mg-Cu BASED NANO FERRITES**

Dissertation submitted to the

GOVERNMENT CITY COLLEGE

(Autonomous)

Affiliated to osmania university

Re- Accredited with 'B++' Grade by NAAC

In Partial Fulfillment of

The requirement for the award of the degree of

MASTER OF SCIENCE

IN

PHYSICS

Under the supervision and guidance of

Dr.V. Nathaniel

Student supervisor

| <u>S.No</u> | <u>Roll Number</u> | <u>Name of the Student</u> | <u>Group</u> |
|-------------|--------------------|----------------------------|--------------|
| 1. | 1084-20-509-029 | K.Maheshwari | M.Sc Physics |
| 2. | 1084-20-509-032 | Almas Ruhi Fathima | M.Sc Physics |



**DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE
HYDERABAD-500 002
NOVEMBER 2022**

DECLARATION


We are hereby declare the dissertation entitled "**study of structural, electrical and magnetic properties of rare earth Ce³⁺ and Nd³⁺ ion doped Ni-Mg-Cu based nano ferrites**" submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.


| S.No | Roll Number | Name of the Student | Group |
|------|------------------|---------------------|--------------|
| 1. | 1084-20-509-032 | Almas Ruhi Fathima | M.sc Physics |
| 2. | 1084-20-509-0029 | K.Maheshwari | M.sc Physics |

Date: 28/11/2022
Place: Hyderabad - 500 002

SIGNATURE:

Almas ruhi
K.Maheshwari


Head of the Dept of Physics,
Govt City College,
HYDERABAD-500002


Dr.V. Nathaniel
Department of Physics
OSMANIA UNIVERSITY
HYDERABAD

Associate Professor
Department of Physics
Osmania University
Hyderabad-500 007.

Certificate Of Supervisor


We declare that the dissertation entitled "**Study of Structural, Electrical and Magnetic properties of rare earth Ce³⁺ and Nd³⁺ ion doped Ni-Mg-Cu based Nano Ferrites**", submitted for the degree of Master of science in Physics is the record of research work carried out by-

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|--------------|
| 1. | 1084-20-509-029 | K.Maheshwari | M.sc Physics |
| 2. | 1084-20-509-032 | Almas Ruhi Fathima | M.sc Physics |

During the period of **July 2021 to November 2022** under my guidance and supervision this work has not formed the basis for the,has not formed the basis for the award of any other Degree , Diploma , Associateship , Fellowship or other titles in this university or institution of higher learning.

Date: 28/11/2022
Place: Hyderabad-500 002.

Dr.V. Nathaniel
(Student supervisor)


(Examiner)

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)
Affiliated to Osmania University

Re-Accredited with ' B++ ' Grade by NAAC

A PROJECT REPORT

ON

“PREPARATION & CHARACTERIZATION OF $B_2O_3-B_2O_3-CdO-BaO-Nd_2O_3$

GLASSES”

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY

| S.No: | Roll Number | Name of Student | Group |
|-------|-----------------|--------------------|-------------|
| 1. | 1084-20-509-015 | VATTIPALLY KISHORE | MSc Physics |
| 2. | 1084-20-509-019 | YALA UPENDRA | MSc Physics |

UNDER THE SUPERVISION OF

Prof.M.Prasad

Department of Physics- Osmania University

NOV-2022

CERTIFICATE

This is to certify that the project entitled **PREPARATION & CHARACTERIZATION OF $\text{Bi}_2\text{O}_3\text{-B}_2\text{O}_3\text{-CdO-BaO-Nd}_2\text{O}_3$ GLASSES** Submitted by Mr.VATTIPALLY KISHORE (Roll No:1084-20-509-015) and Miss.YALA UPENDRA (Roll No:1084-20-509-019), for the fulfilment for the award of Masters of Science in Physics from Govt. City College, Nayapul, Hyd, embodies the work originally carried out under the supervision during the academic year 2020-2022. This project has not been submitted to any other university or institute for the award of any degree.



Project Supervisor

Department of Physics

Osmania University

Dr. M. PRASAD
Professor
Department of Physics
Osmania University
Hyderabad-500 007. T. S.

DECLARATION

We are the bonafide Students of Masters of science in Physics from Govt. City College, Nayapul, Hyderabad. We Would like to declare that the project entitled **PREPARATION & CHARACTERIZATION OF $\text{Bi}_2\text{O}_3\text{-B}_2\text{O}_3\text{-CdO-BaO-Nd}_2\text{O}_3$ GLASSES**. Done and submitted by us in partial fulfilment of the requirements for the award of Degree in Masters of Science. This is our original work and has not been submitted to any other UNIVERSITY or INSTITUTE for the award of any Degree.

| S.No: | Roll Number | Name of Student | Group |
|-------|-----------------|--------------------|-------------|
| 1. | 1084-20-509-015 | VATTIPALLY KISHORE | MSc Physics |
| 2. | 1084-20-509-019 | YALA UPENDRA | MSc Physics |



Internal Examiner & Supervisor

Dr. M. PRASAD
Professor
Department of Physics
Osmania University
Hyderabad-500 007. T. S.


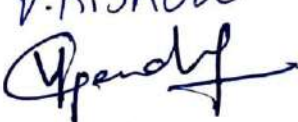


External Examiner



Head of Department,
Govt City College,
Department of Physics,
HYDERABAD-500002.

Date: 28/11/22

Students Signature : 


SYNTHESIS AND ITS IMPACT ON STRUCTURE AND MORPHOLOGY OF BARIUM HEXAFERRITES

Dissertation submitted to
Government City College
(Autonomous)
Affiliated to Osmania University



In Partial Fulfilment of
The required for the award of the Degree of

MASTER OF SCIENCE

IN PHYSICS

By

JADHAV SUDHAKAR

Roll ÷ 1084-20-509-037

&

VEPURI SHIVAKUMAR

Roll ! 1084-20-509-038

UNDER THE SUPERVISOR

Dr. Y. KALYANA LAKSHMI

CERTIFICATE OF SUPERVISOR

We declare that the dissertation entitled "SYNTHESIS AND ITS IMPACT ON STRUCTURE AND MORPHOLOGY OF BARIUM HEXAFERRITES", submitted for the degree of Master of Science in Physics is the record of research work carried out by JADHAV SUDHAKAR & VEPURI SHIVA KUMAR During the period July 2021 to November 2022 under my guidance and supervision this work has not formed the basis for the, has not formed the basis for the award of any other Degree, Diploma, Associateship, Fellowship or other titles in this university or institution of higher learning.

Student Supervisor

D. Y. KALYANA LAKSHMI


Head, Department of Physics

Osmania University

Hyderabad - 500 007


Signature Of Supervisor

D. Y. KALYANA LAKSHMI
Assistant Professor
Department of Physics
Osmania University
Hyderabad-500 007.


Head of the Dept of Physics,
Govt City College,
HYDERABAD-500002.

CERTIFICATE OF EXAMINER

We hereby declare that the dissertation entitled "SYNTHESIS AND ITS IMPACT ON STRUCTURE AND MORPHOLOGY OF BARIUM HEXAFERRITES" submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

Date:

Place: **Hyderabad - 500 002**



EXAMINER

**Synthesis of Sodium Iron Phosphate (NaFePO₄, NFP) by
planetary ball**

milling for Sodium-ion Batteries (SIB)

Dissertation Submitted to the

GOVERNMENT CITY COLLEGE

(Autonomous)

Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC

*In Partial Fulfilment of
The requirement for the award of the degree of*

MASTER OF SCIENCE

IN

PHYSICS

Submitted by:

Saroj Vijaylakshmi (108420509021)

Msc. in Physics, 4th Semester

Govt. City College, Hyderabad

Under the Supervision and Guidance of

Dr.Katchala Nanaji

Scientist

Centre of Nanomaterials



**DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE
HYDERABAD - 500 002
NOVEMBER 2022**

DECLARATION

We hereby declare that the dissertation entitled "Synthesis of Sodium Iron Phosphate (NaFePO_4 , NFP) by planetary ball milling for Sodium-ion Batteries (SIB)" submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.



Saroj Vijaylakshmi (108420509021)
Msc. in Physics, 4th Semester
Govt. City College, Hyderabad

CERTIFICATE OF SUPERVISOR

We declare that the dissertation entitled "Synthesis of Sodium Iron Phosphate (NaFePO₄, NFP) by planetary ball milling for Sodium-ion Batteries (SIB)", submitted for the degree of Master of Science in Physics is the record of research work carried out by –

Saroj Vijaylakshmi (108420509021), Msc. Physics 4th Semester Govt. City College, Hyderabad

During the period July 2021 to November 2022 under my guidance and supervision this work has not formed the basis for the, has not formed the basis for the award of any other Degree, Diploma, Associateship, Fellowship or other titles in this university or institution of higher learning.

Date: 28/11/2022

Place: Hyderabad - 500 002.



Dr. Katchala Nanaji

(STUDENT SUPERVISOR)



Head of the Dept of Physics,
Govt City College,
HYDERABAD-500002.



C E R T I F I C A T E O F E X A M I N E R

We hereby declare that the dissertation entitled "Synthesis of Sodium Iron Phosphate (NaFePO_4 , NFP) by planetary ball milling for Sodium-ion Batteries (SIB)" submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

Date: 28/11/2022

Place: Hyderabad - 500 002



EXAMINER

A PROJECT REPORT
ON
“PREPARATION & CHARACTERIZATION OF
 $X\text{CdO}-(80-x)\text{Li}_2\text{B}_4\text{O}_7-19\text{ZnO}-1\text{CuO}(x=10,20)$
GLASSES”

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY
ALENURU RAMYA (H .T no 1084-20-509-023)

UNDER THE SUPERVISION OF
Prof. Dr. Sharifuddin
Department of Physics-Osmania University
DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE (A)
Affiliated to Osmania University
Nayapul, Hyderabad-500002

JULY-2022

CERTIFICATE

This is to certify that the project entitled **PREPARATION & CHARACTERIZATION OF $x\text{CdO}-(80-x)\text{Li}_2\text{B}_4\text{O}_7-19\text{ZnO}-1\text{CuO}$ ($x=10,20$)GLASSES** Submitted by ALENURU RAMYA, for the partial fulfilment for the award of the degree of MASTER OF SCIENCE IN PHYSICS from Govt.CityCollege,Nayapul,Hyd, embodies the work originally carried out under the supervision during the academic year 2020-2022. This project has not been submitted to any other university or institute for the award of any degree

| S.No | Roll Number | Name Of The Student | Group |
|------|-----------------|---------------------|-------------|
| 1 | 1084-20-509-023 | ALENURU RAMYA | MSC PHYSICS |



Project Supervisor

Dr. Md. SHAREEFUDDIN
M.Sc., Ph.D.

Associate Professor
Department of Physics
University College of Science
Osmania University, Hyderabad-07.

Department of physics

Osmania University

DECLARATION

I am bonafide Students of MSc. Physics in Govt.City College, Nayapul, Hyderabad. We Would like to declare that the project entitled **PREPARATION & CHARACTERIZATION OF $x\text{CdO}-(80-x)\text{Li}_2\text{B}_4\text{O}_7-19\text{ZnO}-1\text{CuO}$ ($x=10,20$) GLASSES** Done and submitted by ALENURU RAMYA in partial fulfilment of the requirements for the award of Degree in Master Science. This is our original work and has not been submitted to any other UNIVERSITY or INSTITUTE for the award of any Degree



Internal Examiner & Supervisor

Dr. Md. SHAREEFUDDIN

M.Sc., Ph.D.

Associate Professor

Department of Physics

University College of Science

Osmania University, Hyderabad-07.



External Examiner



Head of the Dept. of Physics,
Govt City College.

Department of Physics
HYDERABAD-500002.

Date: 22-11-2022

Student signature : A. Ramya

**ACTIVATED CARBON DERIVED FROM ARC DISCHARGE
SOOT AS ELECTRODE MATERIALS FOR
SUPERCAPACITORS**

Dissertation Submitted to the

**GOVERNMENT CITY COLLEGE
(Autonomous)**

Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC

*In Partial Fulfilment of
The requirement for the award of the degree of*

**MASTER OF SCIENCE
IN
PHYSICS**

Under the Supervision and Guidance of

Dr.RAVI KALE

Student Supervisor

By

RATHNAM SUPRIYA

(1084-20-509-030)



**DEPARTMENT OF PHYSICS
GOVERNMENT CITY COLLEGE
HYDERABAD - 500 002
NOVEMBER 2022**

A PROJECT REPORT

**Activated carbon derived from arc discharge soot as
electrode materials for Supercapacitors**

Submitted by:

Rathnam Supriya (1084-20-509-030)

MSc. in Physics, 4th Semester

Govt. City College

Hyderabad

Under the supervision of

Dr Ravi kale sir

DST-Inspire faculty

Centre for Carbon materials

Submitted in fulfillment of the requirement of the

Summer Research Internship Programme



**INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY
AND NEW MATERIALS**

JULY 28, 2022

GOVERNMENT CITY COLLEGE, HYDERABAD

(Autonomous)

Affiliated by Osmania University



CERTIFICATE

This is to certify that the project report entitled "Activated carbon derived from arc discharge soot as electrode materials for Supercapacitors" was submitted to the Centre for ARCI, Hyderabad in fulfillment of the requirement of the Summer Research Internship Program is based on bonafide work carried out by Rathnam Supriya (MSc., Govt. City College, Hyderabad) under my supervision and guidance. All help received from various sources has been duly acknowledged.

Internal Examiner

External Examiner

Department of Physics

Principal

3 K. Ray

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)

Affiliated to Osmania University

Re-Accredited with ' A ' Grade by NAAC (CGPA of 3.26)



DEPARTMENT OF PHYSICS
GOVT.CITY COLLEGE
HYDERABAD-500002

LDR Based Automatic Street Light

A project work submitted for Dissertatio By

| S.No | Roll Number | Name of the Student | Group |
|-------------|--------------------|----------------------------|--------------|
| 1. | 1084-20-509-007 | U.Bhanu Prakash | M.Sc Physics |
| 2. | 1084-20-509-009 | K.Srisailam | M.Sc Physics |
| 3. | 1084-20-509-0035 | Sravanthi Erraboina | M.Sc Physics |

Under Supervision the of

Mr. Gopal Kirshna sir

PHYSITECH ELECTRONICS

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)

Affiliated to Osmania University


Re-Accredited with ' A ' Grade by NAAC (CGPA of 3.26)



CERTIFICATE

This is to certify that the project work entitled “**LDR Based Automatic Street Light**” is submitted by student of **Government City College** so as to submit in **Government City College**, Embodies the work originally carried out under the supervision **Mr.Gopal Krishna Sir** during the academic year 2020-2022.This project has not been submitted to any other university or institute for the award of any degree.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|--------------|
| 1. | 1084-20-509-007 | U.Bhanu Prakash | M.Sc.Physics |
| 2. | 1084-20-509-009 | K.Srisailam | M.Sc.Physics |
| 3. | 1084-20-509-035 | Sravanthi Erraboina | M.Sc.Physics |


I/c, Dept. of Physics
Head of the Dept of Physics,
Govt City College,
HYDERABAD-500002.

PRINCIPAL

CERTIFICATE OF EXAMINAR

We hereby declare that dissertation entitled **LDR Based Automatic Street Light** submitted by us for the award of Masters of Science in the physics of the Govt City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

| S.NO | Roll Number | Name of Student | Group |
|------|-----------------|---------------------|-------------|
| 1. | 1084-20-509-007 | U.Bhanu Prakash | Msc.Physics |
| 2. | 1084-20-509-009 | K.Srisailam | Msc.Physics |
| 3. | 1084-20-509-009 | Sravanthi Erraboina | Msc.Physics |

Date:

Place:Hydeabad-500002


EXAMINAR

PIC18F INTERFACING WITH LED AND LCD

Dissertation Submitted to the

GOVERNMENT CITY COLLEGE

(Autonomous)

Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC

*In Partial Fulfilment of
The requirement for the award of the degree of*

MASTER OF SCIENCE

IN

PHYSICS

Under the Supervision and Guidance of

N.SREEHARI

Student Supervisor

| S.No | Roll Number | Name of the Student | Group |
|-------------|--------------------|----------------------------|--------------|
| 1. | 1084-20-509-033 | Kethavath Praveen | M.Sc Physics |
| 2. | 1084-20-509-046 | N .Sreekanth | M.Sc Physics |
| 3. | 1084-20-509-031 | Kale Shivakumar | M.Sc Physics |
| 4. | 1084-20-509-036 | B. Kavya | M.Sc Physics |
| 5. | 1084-20-509-014 | Kadari Akhila | M.Sc Physics |
| 6. | 1084-20-509-018 | Balkampet Devikarani | M.Sc Physics |



DEPARTMENT OF PHYSICS

GOVERNMENT CITY COLLEGE

HYDERABAD - 500 002

NOVEMBER 2022

DECLARATION

We hereby declare that the dissertation entitled "PIC 18F Interfacing with LED and LCD " submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|----------------------|--------------|
| 1. | 1084-20-509-033 | Kethavath Praveen | M.Sc Physics |
| 2. | 1084-20-509-046 | N .Sreekanth | M.Sc Physics |
| 3. | 1084-20-509-031 | Kale Shivakumar | M.Sc Physics |
| 4. | 1084-20-509-036 | B. Kavya | M.Sc Physics |
| 5. | 1084-20-509-014 | Kadari Akhila | M.Sc Physics |
| 6. | 1084-20-509-018 | Balkampet Devikarani | M.Sc Physics |

Date: 28/11/2022

Place: Hyderabad - 500 002

N.Sreehari
Student Supervisor
Head - Software
Growcontrols
Hyderabad - 500 076



CERTIFICATE OF SUPERVISOR


We declare that the dissertation entitled "PIC 18F Interfacing with LED and LCD", submitted for the degree of Master of Science in Physics is the record of research work carried out by -

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|----------------------|--------------|
| 1. | 1084-20-509-033 | Kethavath Praveen | M.Sc Physics |
| 2. | 1084-20-509-046 | N .Sreekanth | M.Sc Physics |
| 3. | 1084-20-509-031 | Kale Shivakumar | M.Sc Physics |
| 4. | 1084-20-509-036 | B. Kavya | M.Sc Physics |
| 5. | 1084-20-509-014 | Kadari Akhila | M.Sc Physics |
| 6. | 1084-20-509-018 | Balkampet Devikarani | M.Sc Physics |

During the period July 2021 to November 2022 under my guidance and supervision this work has not formed the basis for the, has not formed the basis for the award of any other Degree, Diploma, Associateship, Fellowship or other titles in this university or institution of higher learning.

Date: 28/11/2022

Place: Hyderabad - 500 002.


Head of the Dept of Physics,
Govt City College,
HYDERABAD-500002.


N.SREEHARI

(STUDENT SUPERVISOR)
GROWCONTROLS
P-5/1/A, Road No.13,
IDA Nacharam,
HYDERABAD-500 076. T.S

CERTIFICATE OF EXAMINER

We hereby declare that the dissertation entitled "PIC 18F Interfacing with LED and LCD " submitted by us for the award of Masters of Science in the Physics of the Government City College is our own work. This dissertation has not been submitted for the award of any other degree or diploma of either this or any other University.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|----------------------|--------------|
| 1. | 1084-20-509-033 | Kethavath Praveen | M.Sc Physics |
| 2. | 1084-20-509-046 | N .Sreekanth | M.Sc Physics |
| 3. | 1084-20-509-031 | Kale Shivakumar | M.Sc Physics |
| 4. | 1084-20-509-036 | B. Kavya | M.Sc Physics |
| 5. | 1084-20-509-014 | Kadari Akhila | M.Sc Physics |
| 6. | 1084-20-509-018 | Balkampet Devikarani | M.Sc Physics |

Date: 28/11/2022

Place: Hyderabad - 500 002


EXAMINER

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)
Affiliated to Osmania University

Re-Accredited with ' B++ ' Grade by NAAC

A PROJECT REPORT
ON
"ELECTRICAL STUDIES ON BIO-WASTE PLANT LEAF MATERIALS"

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF MASTER
OF SCIENCE in PHYSICS



SUBMITTED BY

| S.No: | Roll Number | Name of the student | Group |
|-------|-----------------|---------------------|-------------|
| 1. | 1084-20-509-003 | BADEKOLU DEEKSHITHA | MSc Physics |
| 2. | 1084-20-509-039 | BATHUKA ANUSHA | MSc Physics |

UNDER THE SUPERVISION OF

Dr.N.V.Prasad

Department of Physics- Osmania University

NOV-2022

CERTIFICATE

This is to certify that the project entitled "**ELECTRICAL STUDIES ON BIO-WASTE PLANT LEAF MATERIALS**" submitted by Miss. BADA KOLU DEEKSHITHA (Roll No:1084-20-509-003) and Miss. BATHUKA ANUSHA (Roll No:1084-20-509-039), for the partial fulfilment for the award of Masters of Science in Physics from Govt. City College , Hyd , embodies the work done by the two candidates. They had worked under my supervision for the required period of one month. This work is original in its content and has not been submitted before, either in parts or in full, to any university for any research degree.



(Dr.N.V.Prasad)

Project Supervisor

Department of Physics

Osmania University

Dr. N.V. PRASAD
M.Sc., Ph.D.
Associate Professor
Department of Physics
University College of Science
Osmania University, Hyderabad-07.

DECLARATION

This is certify that the project report on "ELECTRICAL STUDIES ON BIO-WASTE PLANT LEAF MATERIALS" is record of bonafide work done by us in the Department of Physics (M.Sc) , Govt. City College ,Nayapul , Hyderabad. The reports are based on the project work done entirely by us and not copied from any other source.

The results embodied in this project report have not been submitted to any other UNIVERSITY or INSTITUTE for the award of any Degree to the best of my knowledge and belief.

| S.No: | Roll Number | Name of the student | Group |
|-------|-----------------|---------------------|-------------|
| 1. | 1084-20-509-003 | BADEKOLU DEEKSHITHA | MSc Physics |
| 2. | 1084-20-509-039 | BATHUKA ANUSHA | MSc Physics |



Internal Examiner & Supervisor

Dr. N.V. PRASAD
M.Sc., Ph.D.
Associate Professor
Department of Physics
University College of Science
Osmania University, Hyderabad-07.



External Examiner



Head of Department
Department of Physics,
Govt City College,
Hyderabad-500002.

Date: 28-11-2022

B. Deekshitha & B. Anusha
Students Signature

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)

Affiliated to Osmania University
Re-Accredited with ' B++ ' Grade by NAAC

A PROJECT REPORT

ON

“PREPARATION & CHARACTERIZATION OF $B_{12}O_3$ - B_2O_3 -CdO-BaO GLASSES”

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY

| S.No: | Roll Number | Name of Student | Group |
|-------|-----------------|--------------------|-------------|
| 1. | 1084-20-509-013 | VARIKUPPALA NAVEEN | MSc Physics |

UNDER THE SUPERVISION OF

Dr.J.Bhemarajam

Assistant professor of Physics

DEPARTMENT OF PHYSICS

GOVERNMENT CITY COLLEGE (A)

Affiliated to Osmania University

Nayapul, Hyderabad-500002

NOV-2022

CERTIFICATE

This is to certify that the project entitled "**PREPARATION & CHARACTERIZATION OF $B_{12}O_3$ - B_2O_3 -CdO-BaO GLASSES**" Submitted by Mr.VARIKUPPALA NAVEEN (Roll No:1084-20-509-013), for the partial fulfilment for the award of the Master of science in Physics from Govt. City College ,Nayapul ,Hyd ,embodies the work originally carried out under the supervision **Dr.J.Bhemarajam** during the academic year 2020-2022. This project has not been submitted to any other university or institute for the award of any degree.



Project Supervisor
Department of Physics
Govt .City College

DECLARATION

I am the bonafide Students of Masters of science in Physics from Govt. City College , Nayapul, Hyderabad. I would like to declare that the project entitled "**PREPARATION & CHARACTERIZATION OF $B_{12}O_3$ - B_2O_3 - CdO - BaO GLASSES**". Done and submitted by me in partial fulfilment of the requirements for the award of Degree in Masters of Science. This is my original work and has not been submitted to any other UNIVERSITY or INSTITUTE for the award of any Degree.

| S.No: | Roll Number | Name of Student | Group |
|-------|-----------------|--------------------|-------------|
| 1. | 1084-20-509-013 | VARIKUPPALA NAVEEN | MSc Physics |



Internal Examiner & Supervisor



External Examiner



Head of Department
Head of the Dept of Physics,
Department of Physics
HYDERABAD-500002

Date: 28/11/2022

Students Signature



A PROJECT REPORT

ON

**“Synthesis and Photoluminescence Properties of Rare Earth
Doped Phosphors”**

SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE
AWARD OF THE DEGREE OF
MASTER OF SCIENCE in PHYSICS



SUBMITTED BY

| S. No | Roll Number | Name of the Student | Group |
|--------------|--------------------|----------------------------|-----------------------|
| 1. | 1084-20-509-041 | MALLEPALLI NAVEEN | M.Sc. Physics II Year |
| 2. | 1084-20-509-044 | VANGAPALLI ARUN KUMAR | M.Sc. Physics II Year |

UNDER THE SUPERVISION OF

Prof. M. SRINIVAS

Department of Physics- Osmania University

NOV-2022

CERTIFICATE

This is to certify that the project entitled "**Synthesis and Photoluminescence Properties of Rare Earth Doped Phosphors**" submitted by **MALLEPALLI NAVEEN** (Roll No:1084-20-509-041) and **VANGAPALLI ARUN KUMAR** (Roll No:1084-20-509-044), for the fulfilment for the award of Masters of Science in Physics from Govt. City College, Nayapul, Hyd, embodies the work originally carried out under the supervision during the academic year 2020-2022. This project has not been submitted to any other university or institute for the award of any degree.


Project Supervisor

Department of Physics

Osmania University

Dr. M. Srinivas
Professor ^{M.Sc., Ph.D.}
Department of Physics
Osmania University
Hyderabad-500 007, T.S

2022-23

CERTIFICATE

Certified that the work presented in the project report entitled "POST SYNTHESIS TREATMENT OF CsPbBr₃ NANO CRYSTALS TO ENHANCE PHOTOLUMINESCENCE" has been carried out by

Akula Bhargavi:1084-21-509-018

Alaveni Mamatha:1084-21-509-028

Pitla Shashi Kumar:1084-21-509-013

Under my supervision and the same has not been submitted elsewhere for any degree.

Head of the Dept. of Physics
Govt. City College,
HYDERABAD-500092.

Dr. Murali Banavoth
(Supervisor)

PRINCIPAL

CERTIFICATE

Certified that the work presented in the project report entitled "POST SYNTHESIS TREATMENT OF CsPbBr₃ NANOCRYSTALS TO ENHANCE PHOTOLUMINESCENCE" has been carried out by Alaveni Mamatha under my supervision and the same has not been submitted elsewhere for any degree.

Dr. Murali Banavoth
(Supervisor)

MURALI BANAVOTH (PhD)
Associate Professor
SCHOOL OF CHEMISTRY (SOC)
University of Hyderabad (HCU)
Prof. C.R. Rao Road, Gachibowli, Hyd
T.S. India - 500 048, Ph: 040-23134828
Email : murali.banavoth@uchyd.ac.in

Preparation and Characterization of ZnAlMnO-SWCNT nanocomposites

PROJECT REPORT

As a Part of the Requirement for the Degree of Master of Science

Submitted by

Thakur Hrishikesh Singh [1084-21-509-009]

Thigulla Ganesh [1084-21-509-027]

MotheSunnith Reddy [1084-21-509-034]

K.Bhanu Prasanna Kumar [1084-21-509-049]

Under the Supervision of

Dr. P. Raju & Dr. G. Neeraja Rani

DEPARTMENT OF PHYSICS
FRESHMAN ENGINEERING,
GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY
HYDERABAD- 501 301

Dr. S.E. Naina Vinodini

HEAD OF THE DEPARTMENT
DEPARTMENT OF PHYSICS,
GOVERNMENT CITY PG COLLEGE(A),
NAYAPUL,
HYDERABAD-500066

ATTENDANCE LETTER

This is to confirm that the Government City College-Nayapul-Hyderabad students participated actively in the internship programme and worked on "Synthesis and Characterization of ZnAlMnO-SWCNT nanocomposites" in Geethanjali College of Engineering and Technology, Cheerlyal, Keesara, from 05-06-2023 to 17-06-2023.

The following students have worked in the R & D lab of GCET, from 05-06-2023 to 17-06-2023

| | |
|-------------------------|-----------------|
| 1. HRISHIKESH SINGH | 1084-21-509-009 |
| 2. GANESH | 1084-21-509-027 |
| 3. SUNNITH REDDY | 1084-21-509-034 |
| 4. BHANU PRASANNA KUMAR | 1084-21-509-049 |

SIGNATURE OF THE HEAD OF THE DEPARTMENT

Head of the Dept. of Physics
Govt. City College,
HYDERABAD-500092.

PRINCIPAL

GOVERNMENT CITY COLLEGE, HYDERABAD.

(Autonomous)
Affiliated to Osmania University
Re-Accredited with 'B' Grade by NAAC (CGPA of 2.73)



Title of the Project

Synthesis of ZnO Nanoparticles by Precipitation method

A project work submitted for semester VI

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|---------------------|------------|
| 1 | 1084-21-509-014 | Samatha Naria | MSC 2 Year |
| 2 | 1084-21-509-030 | Pathlavath Santosh | MSC 2 Year |
| 3 | 1084-21-509-035 | Kukutla Kumar | MSC 2 Year |
| 4 | 1084-21-509-044 | M. Guna prasad | MSC 2 Year |
| 5 | 1084-21-509-048 | Marri Ashwini | MSC 2 Year |
| 6 | 1084-21-509-051 | Farheen Begum | MSC 2 Year |

PRINCIPAL

Under Supervision of
Dr. Suvarna Ravi bathe
Assistant Professor of Physics
Govt. City College

Head of the Dept. of Physics
Govt. City College
HYDERABAD-500092
I/c. Department of Physics
Associate Professor
Government City College, Hyderabad

POST SYNTHESIS TREATMENT OF CsPbBr₃ NANOCRYSTALS TO ENHANCE PHOTOLUMINESCENCE

MASTER OF SCIENCE

Submitted by
ALAVENI MAMATHA
AKULA BHARGAVI
PITLA SHASHI KUMAR

Under the supervision of
Dr. MURALI BANAVOTH



School of chemistry
University of Hyderabad
Hyderabad-500046

India
June 2023

Dr. Parvathalu Kalakonda
Smart Nano Research laboratory
Government City PG College (A), Hyderabad



"Synthesis and Structural Studies of Lead free Magnetolectric composites"



Minor Research Project
by

Sheelam Swetha
Jannu Akhila
Miryala Susmitha
Kotta Sandhya
Yedla Swathi
Munna Janaki Ram

Under the guidance of

Dr. N. Pavan Kumar
Assistant Professor of Physics,
Matrusri Engineering College,
Hyderabad-500059.

Dr. Y. Vasudeva Reddy,
Assistant Professor of Physics,
Govt. City College,
Hyderabad-500 002.

Department of Science and Humanities
Matrusri Engineering College
Hyderabad - 500059.



CERTIFICATE

This is to certify that the project entitled "Synthesis and Structural Studies of Lead free Magnetolectric composites" is a bonafide record of the work done by **Sheelam Swetha, Jannu Akhila, Kotta Sandhya, Miryala Susmitha, Yedla Swathi, Munna Janaki Ram** under the guidance of **Dr. N. Pavan Kumar**, Assistant Professor of Physics on minor research project from **Matrusri Engineering College** during the academic year 2022-2023.

Dr. N. Pavan Kumar
Assistant Professor of Physics
Department of Science & Humanities
Matrusri Engineering College, Saidabad,
HYDERABAD-500059.

Assistant Professor of Physics,
Matrusri Engineering College,
Hyderabad-500059.

Dr. T. Shekaram,
Dept. of Sciences and Humanities,
Matrusri Engineering College,
Saidabad, HYDERABAD-500 059.

Head of S&H,
Matrusri Engineering College,
Hyderabad-500059.

Designing the Hole Transporting Materials for Highly Efficient Organic-Inorganic Hybrid Solar Cells

PROJECT REPORT

As a Part of the Requirement for the Degree of Master of Science

Submitted By

Dabbeta Naveen Kumar

&

Jakkula Pranaya

Under the Supervision of

Dr.MuraliBanavoth

Solar Cells and Photonics Research Laboratory (SPRL)

School of Chemistry, University of Hyderabad, Hyderabad-46



Dr.ParvathaluKalakonda

Smart Nano Research laboratory

Government City PG College (A), Hyderabad



CERTIFICATE

Certified that the work presented in the project report entitled "Designing the Hole Transporting Material for Highly Efficient Inorganic-Organic Hybrid Solar Cells" has been carried out by **Dabbeta Naveen Kumar** under my supervision and the same has not been submitted elsewhere for any degree.

| S.No | Roll Number | Name of the Student | Group |
|------|-----------------|----------------------|-------------|
| 1 | 1084-21-509-007 | Dabbeta Naveen Kumar | MSc II Year |
| 2 | 1084-21-509-025 | Jakkula Pranaya | MSc II Year |

Dr.PARVATHALU KALAKONDA

Head of the Dept. of Physics
Govt City College,
HYDERABAD-500092

Dr. MURALI BANAVOTH

PRINCIPAL



GOVERNMENT CITY COLLEGE, HYDERABAD
(AUTONOMOUS)

Affiliated to Osmania University

Re-Accredited with 'B++' Grade by NAAC



Mana Ooru Mana Charitra

Project Work

On

Thulekhurdu Village

Submitted to

Commissionerate of Collegiate Education

As partial fulfilment of the VIth Semester B.A.

GOVERNMENT CITY COLLEGE, HYDERABAD
(AUTONOMOUS)

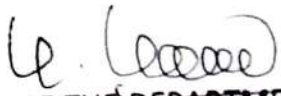
Affiliated to Osmania University

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CERTIFICATE

This is to Certify CH.PoornaChandar, D.Simrani, EK.Karthik, G.Somanth Goud, K.Dinesh Roll No. 1084-20-080-001/002/003/004/005 respectively of B.A. (HPG), Government City College, Hyderabad have submitted an original project work under Mana Ooru Mana Charitra on Thulekhurdu village as partial fulfilment of Degree in BA for the Academic year 2022-2023


HEAD OF THE DEPARTMENT


EXTERNAL EXAMINER


PRINCIPAL
PRINCIPAL
Govt. City College
Nayapul, Hyderabad-0

SCREENING OF POPULATION FOR DIABETES MELLITUS IN TELANGANA STATE

Submitted By

M. Preetham, Md. Mustafa, K. Manideep,
Ch. Harish, A. Sagar, K. Srikanth
[III Year, BSc MZC Students]

Under the Supervision of

DR. V. SREEDEVI

Assistant Professor of Zoology



Submitted to

DEPARTMENT OF ZOOLOGY
GOVERNMENT CITY COLLEGE (A)
(Affiliated to Osmania University)
(Reaccredited by NAAC with B+)
Nayapul, Hyderabad-500002
2021-2022

*Evaluated
K.A.*

SCREENING OF POPULATION FOR DIABETES MELLITUS AND COVID AFFECTED INDIVIDUALS

Submitted By

V.RAJKUMAR, SK. SANDHYA, R.SWATHI

P. DIVYA, CH. DIVYA and T. SATISH

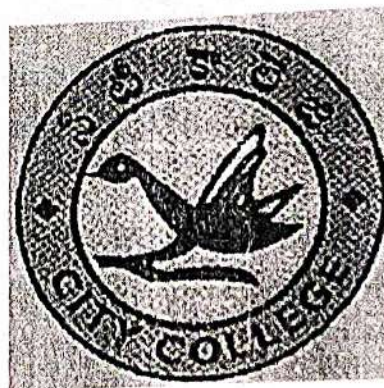
[IIIrd Year B.Sc, MZC Students]

(Batch - 2)

Under the Supervision of

DR. V. SREEDEVI

Asst. Professor of Zoology



Submitted to

DEPARTMENT OF ZOOLOGY

GOVERNMENT CITY COLLEGE [A], NAYAPUL, HYDERABAD

For the Academic Year 2021-2022

Evaluation
K.A.

DECLARATION

We the undersigned students, studying VI- Semester B.Sc. at Government City College, Hyderabad during the academic year 2019-2020 hereby declare that this is my original work and submitted the Project work on **Determination of Dissociation Constant of Aspirin by Potentiometric Study** is the outcome of my study from Department of chemistry for the partial fulfillment of the requirements for the degree of Bachelor of Science.

| S.No. | Name of the student | Group | Roll No. | Signature |
|-------|---------------------|-----------|-----------------|-------------|
| 1 | N. Krishna | MPC (T/M) | 1084-17-441-503 | N. Krishna. |
| 2 | R. Sandhya | " | 1084-17-441-506 | R. Sandhya |
| 3 | V. Vishal | " (E/M) | 17-1084-441-029 | Vishal |
| 4 | T. Purender | " | 17-1084-441-027 | Purender |
| 5 | D. Pradeep | " | 17-1084-441-005 | Pradeep |
| 6 | | | | |

Place: Hyderabad

Date: 8-10-2020



Government City College, Hyderabad.


(Autonomous)


Affiliated to Osmania University, Reaccredited with B++ Grade by NAAC

CERTIFICATE

This is to certify that the Chemistry project report on the **Determination of Dissociation Constant of Aspirin by Potentiometric Study** submitted to the Department of Chemistry by the following group of students, for the academic year 2019-2020, for the partial fulfillment of the requirements for the degree of Bachelor of Science.

| S.No. | Name of the Student | Roll Number |
|-------|---------------------|-----------------|
| 1 | N. Krishna | 17-1084-441-009 |
| 2 | R. Sandhya | 17-1084-441-016 |
| 3 | V. Vishal | 17-1084-441-029 |
| 4 | T. Pusender | 17-1084-441-027 |
| 5 | D. Pradeep | 17-1084-441-005 |
| 6 | | |


Project Supervisor


Head Of Department
IN-CHARGE
Dept. of Chemistry,
Govt. City College,
Autonomous
HYDERABAD-500 002.

A
PROJECT REPORT
ON
APPLICATIONS OF MATHEMATICS IN REAL LIFE

SUMMITTED BY

R. RAMESH

V. PARAMESH

D. RAKESH

B. KALADER

K. SWATHI

S.GEETHA

NAVANEETHA

MD. ABDUL SHABAZ

Under the guidance of

Dr. K. SARADA

**PROJECT SUBMITTED TO DEPARTMENT OF MATHEMATICS IN PARTIAL
FELFILMENT FOR THE AWARD OF THE DEGREE OF**

B.sc (MPE)



GOVERNMENT CITY COLLEGE

(AUTONOMOUS)

Affiliated to Osmania University

Re – Accredited with ‘ A ‘ Grade by NAAC

NAYAPPOOL HIGH COURT ROAD, HYDERABAD

2018 - 2019



DECLARATION

We, the students of B.sc (MPE) III year studying at government city college Hyderabad hereby that this is our original project work and submitted as the student study project under the guidance of

Dr. K. SARADA. Asst, professor of Mathematics,

K. Sarada

Signature of the supervisor

Signature of the students

R. Ramesh.

Ramesh

S. Geetha

D. Ramesh

G. Abhaneetha

B. Kaladhar

M.D. Shabir

K. Swathi

Evaluated by
Dr. P. Rami Reddy

| S.NO | Name of the student | Roll No | Signature |
|------|-------------------------|-------------------|---------------|
| 1 | R. RAMESH | 1601-1084-460-020 | R. Ramesh. |
| 2 | V. PARAMESH | 1601-1084-460-024 | V. Paramesh |
| 3 | D. RAKESH | 1601-1084-460-007 | D. Rakesh |
| 4 | B. KALADER | 1601-1084-460-003 | B. Kaladar |
| 5 | K. SWATHI | 1601-1084-460-011 | Swathi |
| 6 | S. GEETHA | 1601-1084-460-021 | S. Geetha |
| 7 | NAVANEETHA | 1601-1084-460-009 | G. Navaneetha |
| 8 | ABDUL SHABAZ (EMS) | 1601-1084-128-017 | M.D. Shaba |