

PROJECT REPORT
ON
THEORETICAL MEASUREMENT OF GAMMA RAY SHIELDING BEHAVIOUR OF
CEMENT WHITE AND CEMENT WHITE
Submitted to PG Department of Physics
Kanya Maha Vidyalaya, Jalandhar
for the partial fulfillment of requirement for the degree in M.Sc.
Physics(2021 - 2022)



Submitted to : Dr. Manmohan Singh Heer

Submitted by : Anjali kataria

Department of Physics

M.Sc. Physics (Sem 4)

Class Roll No: 2110555

Uni. Roll No. : 20209000001

CERTIFICATE

This is to certify that a project entitled '**GAMMA RAY SHIELDING BEHAVIOUR OF CEMENT BLACK AND CEMENT WHITE**' in Kanya Maha Vidyalaya college embodies the original theoretical work done by **Anjali kataria** for the partial fulfillment of degree of **M.Sc.Physics (2021-2022)** submitted to Guru Nanak Dev University , Amritsar is carried out under guidance .This is the original piece of work and has not been submitted to any other institute . The quality of work fulfills the centre necessary requirement related to this degree.

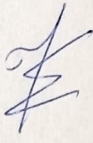
GUIDE:


Dr. Manmohan Singh Heer

Assistant Professor

KMV, College

Jalandhar


Navneet Gupta

Head of Department:


Mrs. Parminder Kaur

PROJECT REPORT
ON
SYNTHESIS Of ZnO And ANALYSIS BY FTIR

Submitted in partial fulfillment
Of the requirements for the master
M.SC (PHYSICS) degree



TO
PG DEPARTMENT OF PHYSICS
KANYA MAHA VIDYALAYA JALANDHAR

Submitted by :.

Submitted to

Gagandeep kaur

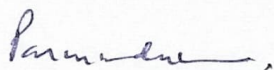
Dr. Sonik Bhatia

Examination roll no . 20209000002.

Session – 2021-22

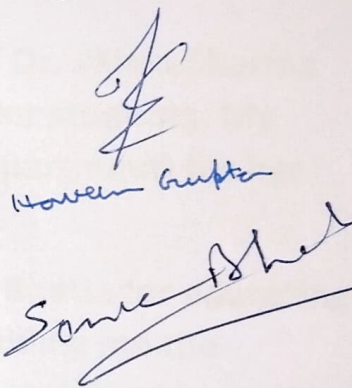
CERTIFICATE

This is to certify that the dissertation entitled ,"(synthesis of ZnO and analysis by FTIR)" bodies the original work done by Gagandeep kaur in partial fulfilment of degree of M.Sc (Physics) for the session 2021-22 submitted to "KANYA MAHA VIDYALAYA (KMV) JALANDHAR .The work has been carried out under the guidance of Dr. Sonik Bhatia. To the best of our knowledge, the work is the result of her original investigation and study. No part of assignment has ever been submitted to any other institution and university. The quality of work fulfils the necessary requirements related to this degree.



Mrs. Parminder Kaur

Head of Department
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar



Harveen Gupta

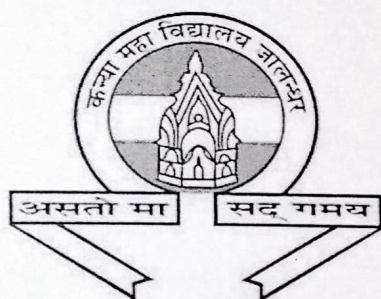
Dr. Sonik Bhatia

Supervisor
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar

A Project
On
To study physical and optical properties of Borosilicate glasses

Submitted to

Kanya Maha Vidyalaya, Jalandhar
for the partial fulfillment of requirement for the
Degree of Master in
Physics
(2021-22)



Submitted to

Dr. Neetu Verma

P.G. Department Physics

Kanya Maha Vidyalaya

Jalandhar

Submitted by

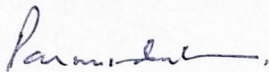
Pooja Chauhan

University Roll No.

20209000003

CERTIFICATE

This is to certify that an assignment entitled to study the "To study physical and optical properties of borosilicate glasses" the original work done by POOJA CHAUHAN in the fulfillment of the degree of M.Sc. Physics session 2021-22 submitted to GURU NANAK DEV UNIVERSITY AMRITSAR & KANYA MAHA VIDYALAYA JALANDHAR was carried out under our guidance and supervision. This is original piece of work and has not submitted to any other institute. The quality of work fulfills the entire necessary requirement related to this degree.




Mrs. Parminder Cheema

Head of Department

PG. Dept of Physics

Kanya Maha Vidyalaya

Jalandhar


Neetu Gupta

Dr. Neetu Verma

Supervisor

PG. Dept of Physics

Kanya Maha Vidyalaya

Jalandhar

A
Dissertation
**TO STUDY THE IMPEDANCE AND RESISTIVITY OF
GRAPHENE OXIDE/POLYANILINE**

Submitted in partial fulfillment
Of the requirements for the Master degree
M.Sc. (PHYSICS)



To
**PG DEPARTMENT OF PHYSICS
KANYA MAHA VIDYALAYA JALANDHAR**

Submitted by

Shivani Nayyar

End Semester Examination

ROLL NO- 20209000004

SESSION – 2021-22

Submitted to

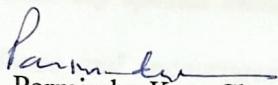
Dr.SangeetaPrasher

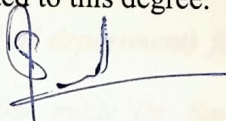


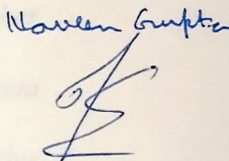
CERTIFICATE

This is to certify that the Dissertation entitled "TO STUDY THE ELECTRICAL PROPERTIES OF GRAPHENE OXIDE/ POLYANILINE" bodies the original work done by Shivani Nayyar in partial fulfillment of degree of M.Sc. (Physics) for the session 2021-22 submitted to "**KANYA MAHA VIDYALAYA (KMV) JALANDHAR**".

The work has been carried out under the guidance of Dr. Sangeeta Prasher. To the best of our knowledge the work is the result of her original investigation and study. No part of assignment has ever been submitted to any other institution and university. The quality of work fulfills the necessary requirements related to this degree.


Mrs. Parminder Kaur Cheema
Head of Department
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar


Dr. Sangeeta Prasher
Supervisor
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar


Navleen Gupta

PROJECT REPORT

ON

THEORETICAL MEASUREMENT OF GAMMA RAY SHIELDING BEHAVIOR OF CLAY AND RED MUD

Submitted to PG Department of Physics

Kanya Maha Vidyalaya Jalandhar

**for the partial fulfillment of requirement for the degree in M.Sc.
Physics(2021-2022).**



Submitted To: Dr Manmohan Singh Heer

Submitted By: Sukriti Thakur

Department of Physics

M.Sc. Physics (Sem. 4)

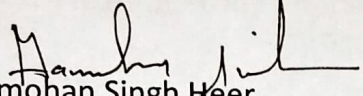
Class Roll No. : 2110557

University Roll No. : 20209000005

CERTIFICATE

This to certify that a project entitled 'GAMMA RAY SHIELDING BEHAVIOR OF CLAY AND RED MUD' in Kanya Maha Vidyalaya college embodies the original theoretical work done by Sukriti Thakur for the partial fulfillment of degree of M.Sc. Physics (2021-2022) submitted to Kanya Maha Vidhyalaya Jalandhar is carried out under our guidance. This is the original piece of work and has not been submitted to any other institute. The quality of work fulfills the centre necessary requirement related to this degree.

Guide:


Dr. Manmohan Singh Heer

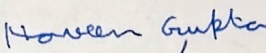

Assistant Professor

KMV, College

Jalandhar

Head of Department:


Mrs. Parminder Kaur

A

Dissertation

**TO STUDY THE CAPACITANCE AND DIELECTRIC LOSSES OF
GRAPHENE OXIDE/POLYANILINE**

Submitted in partial fulfillment
Of the requirements for the Master degree
M.Sc. (PHYSICS)



To

**PG DEPARTMENT OF PHYSICS
KANYA MAHA VIDYALAYA JALANDHAR**

Submitted by

KAVITA GADDU

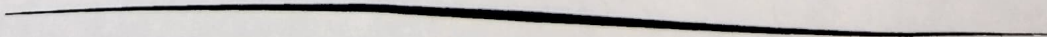
End Semester Examination

ROLL NO- 20209000006

SESSION – 2021-22

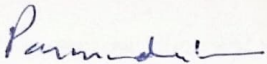
Submitted to

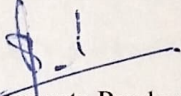
Dr.SangeetaPrasher

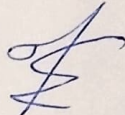


CERTIFICATE

This is to certify that the Dissertation entitled "TO STUDY THE CAPACITANCE AND DIELECTRIC LOSSES OF GRAPHENE OXIDE/ POLYANILINE" bodies the original work done by Kavita gaddu in partial fulfillment of degree of M.Sc. (Physics) for the session 2021-22 submitted to "**KANYA MAHA VIDYALAYA (KMV) JALANDHAR**". The work has been carried out under the guidance of Dr. Sangeeta Prasher. To the best of our knowledge the work is the result of her original investigation and study. No part of assignment has ever been submitted to any other institution and university. The quality of work fulfills the necessary requirements related to this degree.


Mrs. Parminder Kaur Cheema
Head of Department
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar


Dr. Sangeeta Prasher
Supervisor
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar


Havleen Gupta

A Project
On
To study optical and physical characterization of heavy metal
oxyfluoride glasses

Submitted to

Kanya Maha Vidyalaya, Jalandhar
for the partial fulfillment of requirement for the

Degree of Master in

Physics

(2021-22)



Submitted to

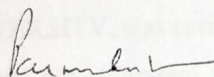
Dr. Gopi Sharma
Kanya Maha Vidyalaya
Jalandhar

Submitted by

Akriti Sharma
University Roll no:
20209000007

CERTIFICATE

This is to certify that an assignment entitled to study the "To study optical and spectroscopic properties of heavy metal oxyfluoride glasses" the original work done by AKRITI SHARMA in the fulfillment of the degree of M.Sc. Physics session 2021-22 submitted to GURU NANAK DEV UNIVERSITY, was carried out under our guidance and supervision. This is original piece of work and has not submitted to any other institute. The quality of work fulfills the entire necessary requirement related to this degree.



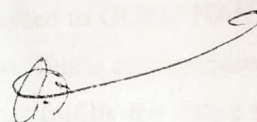
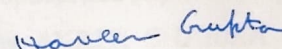
Mrs. Parminder Cheema

Head of Department

PG. Dept of Physics

Kanya Maha Vidyalaya

Jalandhar



Dr. Gopi Sharma

Supervisor

PG. Dept of Physics

Kanya Maha Vidyalaya

Jalandhar

A
PROJECT REPORT
ON
SYNTHESIS OF ZINC OXIDE NANOSTRUCTURES
& ITS UV ANALYSIS

Submitted in partial fulfilment
of the requirements of Master Degree
M.Sc. (PHYSICS)



TO

PG DEPARTMENT OF PHYSICS
KANYA MAHAVIDYALAYA ,JALANDHAR

Submitted To:
Dr. Sonik Bhatia
(Department Of Physics)

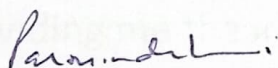
Submitted By:
Varsha Malhotra
M.Sc Physics (Sem 4)

Examination no. 20209000008

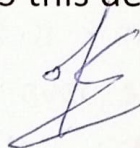
Session 2021:22

CERTIFICATE

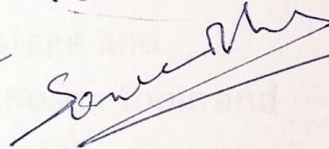
This is to certify that the dissertation entitled, "Synthesis of ZnO nanostructures & its UV analysis" bodies the original work done by VARSHA MALHOTRA in partial fulfilment of degree of M.Sc (Physics) for the session 2021-22 submitted to "KANYA MAHA VIDYALAYA (KMV) JALANDHAR". The work has been carried out under the guidance of Dr. Sonik Bhatia. To the best of our knowledge, the work is the result of her original investigation and study. No part of assignment has ever been submitted to any other institution and university. The quality of work fulfils the necessary requirements related to this degree.



Mrs. Parminder Kaur
Head of Department
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar



Hareem Gupta



Dr. Sonik Bhatia
Supervisor
PG Department of Physics
Kanya Maha Vidyalaya
Jalandhar