

## List of M.Sc Physics Project Reports

Sr. No	Title of project	Name of Supervisor
1	1. Chemical Vaport Deposition. 2. Molecular Beam Epitaxy. 3. Pulse Laser Deposition. 4. Sputtering.	Dr. Chandan Bhardwaj
2.	The Study of Solar Cells	Prof. Neelam Guleria
3.	Synthesis and Characterization of (Y <sub>2</sub> O <sub>3</sub> -MgO-ZnO) Nanocomposites	Prof. Jyotsna
4.	UV Spectroscopy	Prof. Parshant Sharma
5.	To Study and Design Fractional Order Filters	Prof. Lavli Rana
6.	“Study of Numerical Aperture and Attenuation of Optical Fibre”	Pro. Suresh Kumar
7.	Study and Analysis of Nuclear cross Section for Cu <sup>64</sup> -Medical radioisotope through proton induced reaction on Ni <sup>64</sup> using EMPIRE 3.2.3 Code.	Dr. Rohit Sandal

HOD



Department of Physics  
GC Hamirpur

**PROJECT REPORT**  
**ON**  
**CHEMICAL VAPOUR DEPOSITION**

**SUBMITTED**

In partial fulfilment of the requirements for the degree of



**MASTERS OF SCIENCE IN PHYSICS**

**SUPERVISED by**  
**DR. CHANDAN BHARDWAJ**

**SUBMITTED by**  
**PUNEET THAKUR**

**DEPARTMENT OF PHYSICS**  
**NSCBM Govt. College Hamirpur (H.P)**  
**Session 2021-2023**

**PROJECT REPORT  
ON  
MOLECULAR BEAM EPITAXY**

**SUBMITTED**

In partial fulfilment of the requirements for the degree of



**MASTER OF SCIENCE IN PHYSICS**

**SUPERVISED BY:**

**DR CHANDAN BHARDWAJ**

**SUBMITTED BY:**

**AMISHA SADIYAL**

**DEPARTMENT OF PHYSICS**

**NSCBM Govt. College Hamirpur (H.P)**

**Session: (2021-2023)**

**PROJECT REPORT**  
**ON**  
**Pulse Laser Deposition**

**SUBMITTED**

In Partial fulfillment of the requirements for the degree of



**MASTER OF SCIENCE IN PHYSICS**

**SUPERVISED BY:** Dr CHANDAN BHARDWAJ  
**Submitted BY:** ANCHAL SHARMA

**DEPARTMENT OF PHYSICS**  
**NSCBM Govt. College Hamirpur (H.P)**  
**Session 2021-2023**

**PROJECT REPORT  
ON  
SPUTTERING**

**SUBMITTED**

In partial fulfilment of the requirements for the degree of



**MASTER OF SCIENCE IN PHYSICS**

**SUPERVISED BY:  
DR CHANDAN BHARDWAJ**

**SUBMITTED BY:  
ANJALI**

**DEPARTMENT OF PHYSICS  
NSCBM Govt. College Hamirpur (H.P)  
Session: (2021-2023)**

**M.Sc. PROJECT REPORT**  
**ON**  
**THE STUDY OF SOLAR CELLS**

**SUBMITTED**

*In partial fulfilment of the requirements for the degree of*



**MASTER OF SCIENCE IN PHYSICS**

**Supervised by:**

**Prof. Neelam Guleria**

**Submitted by:**

**Neha (210040200013)**

**Sunil Sharma(210040200026)**

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**Garima (210040200008)**

**DEPARTMENT OF PHYSICS**

**NSCBM Govt. College Hamirpur**

**Session: 2021-2023**

# M.Sc. Project Report

On

# Synthesis and Characterization of ( $Y_2O_3$ - MgO- ZnO) Nanocomposites



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

## Master of Science In Physics

**Supervised By:**

Prof. Jyotsna

**Submitted By:**

Rajni Kumari (210040200021)  
Rajeev Kumar (210040200020)  
Deeksha (210040200007)  
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**Department of Physics**

Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur

**Himachal Pradesh University**  
Summer Hill, Shimla - 5

**Session Nov. 2021- Aug. 2023**

**PROJECT REPORT**  
**ON**  
**UV SPECTROSCOPY**  
**SUBMITTED**

In partial fulfilment of the requirements for the degree of



**MASTER OF SCIENCE IN PHYSICS**

**SUPERVISED BY:**

Prof. Parshant Sharma

**SUBMITTED BY:**

Pooja

Anmol Dhatwalia

Pallavi Thakur

Ishuta

**DEPARTMENT OF PHYSICS**  
**NSCBM Govt.College Hamirpur(H.P)**

**Session: 2021-2023**



# PROJECT REPORT

ON

To Study and Design Fractional Order Filters

SUBMITTED

*In partial fulfilment of the requirements for the degree of*



MASTER OF SCIENCE IN PHYSICS

Supervised by:  
Prof. Lavli Rana

Submitted by:  
Manu Sharma

Himanshi Choudhary

Smailie Thakur

Anchal Thakur

DEPARTMENT OF PHYSICS

Netaji Subhash Chander Bose Memorial Govt. College Hamirpur

# PROJECT REPORT

ON

**“Study of Numerical Aperture And Attenuation of Optical Fibre”**

Submitted in partial fulfillment of requirement for the degree of

**Masters of Science in Physics**

**Submitted To**



**Himachal Pradesh University Shimla-171005**

**Under the guidance of**

**Suresh Kumar  
Assistant Professor  
Department Of Physics**

**Submitted By**

**Shivani (MSCPHY025)  
Ojaswani (MSCPHY026)  
Neha Sharma (MSCPHY027)  
Saroj Thakur (MSCPHY028)**



**DEPARTMENT OF PHYSICS**

**NETAJI SUBASH CHANDRA BOSE MEMORIAL GOVERNMENT COLLEGE**

**HAMIRPUR-177005**

# M.Sc. PROJECT REPORT

On

Study and analysis of nuclear cross section for  $\text{Cu}^{64}$ -Medical radioisotope through proton induced reaction on  $\text{Ni}^{64}$  using EMPIRE 3.2.3 code



**SUBMITTED**

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

**MASTER OF SCIENCE IN PHYSICS**

**Supervised by:**

**Dr. Rohit Sandal**

**Submitted by:**

**Priya Kanungo**

**Raysee Mehra**

**Varsha Thakur**

**Aarti**

**DEPARTMENT OF PHYSICS**

**NSCBM Govt. College, Hamirpur**

**Himachal Pradesh University, Shimla**

**Session: 2021-2023**