

# AMITY UNIVERSITY

## — R A J A S T H A N —

### AMITY SCHOOL OF APPLIED SCIENCES (ASAS)

### *Master of Science - Applied Physics*

**List of students undertaking field project or research projects or internships.**

Program Code	Programme name	Name of the students
12500	M. Sc. Applied Physics	Arzoo
12500	M. Sc. Applied Physics	Vinika
12500	M. Sc. Applied Physics	Surendra Singh
12500	M. Sc. Applied Physics	Yogesh
12500	M. Sc. Applied Physics	Pankaj
12500	M. Sc. Applied Physics	Mr. Vikash
12500	M. Sc. Applied Physics	Ms Khyati Sharma
12500	M. Sc. Applied Physics	Mr Pushpendra Singh Shekhawat
12500	M. Sc. Applied Physics	Mr Rahul Singh Shekhawat
12500	M. Sc. Applied Physics	Ms Sonam Raghav

# Synthesis and Characterisation of $\text{BaFe}_2\text{O}_4/\text{TiO}_2/\text{SiC}$ Nanocomposites



In partial fulfillment for the Award of the

Degree of

Master of Science

In

Applied Physics

By

**ARZOO ARORA**

(A22550019001)

Under the Supervision of

**Dr. Umesh K. Dwivedi**

Associate Professor

Amity University Rajasthanm

**Dr. Deepshikha Rathore**

Assistant Professor

Amity University Rajasthan

Department of Applied Physics

Amity School of Applied Sciences

**AMITY UNIVERSITY RAJASTHAN**

**July 2021**



# Fabrication of Functionally gradient polymer composites

In partial fulfillment of the requirements for the award of the  
Degree of

**Masters of Sciences**

In

**APPLIED PHYSICS**

By

**Vinika**

**Enrollment no: A22550019003**

Under the supervision of

**Dr. U.K. Dwivedi**

Associate Professor

Amity University Rajasthan, Jaipur



# Dielectric study of PANI/Silica composites

In partial fulfillment of the requirements for the award of the  
Degree of  
**Masters of Sciences**  
In  
**APPLIED PHYSICS**

By  
**Surendra Singh**  
Enrollment no: A22550019002

Under the supervision of

**Dr. U.K. Dwivedi**  
Associate Professor  
Amity University Rajasthan, Jaipur



# Synthesis and Characterization of Ferrites

In partial fulfillment of the requirements for the award of the  
Degree of

**Masters of Sciences**

In

**APPLIED PHYSICS**

By

**Yogesh**

**Enrollment no: A22550019004**

Under the supervision of

**Dr. Deepshikha Rathore**

Assistant Professor

Amity University Rajasthan, Jaipur

# Physicochemical Properties of BaTiO<sub>3</sub>/Ag/WO<sub>3</sub> Nanocomposites



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

**Master of Science**

**in**

**Applied Physics**

**By**

**Pankaj**

**(A22550020001)**

Under the supervision of

**SUPERVISOR**

**Dr Deepsikha Rathore**

**Assistant Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

**Co- SUPERVISOR**

**Dr Lubna Aamir**

**Associate Professor**

**Department of Physics**

**University of Hail, KAS**

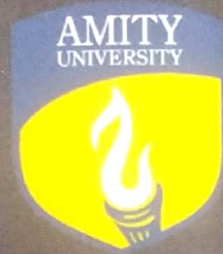
**AMITY SCHOOL OF APPLIED SCIENCES**

**AMITY UNIVERSITY RAJASTHAN**

**NH-11c, Kant Kalwar, Jaipur-303002**

**(2020-2022)**

**Dielectric Properties of CFO/Ag/WO<sub>3</sub> nanocomposites as LPG Sensor**



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

**Master of Science**

**in**

**Applied Physics**

**By**

**VIKASH**

**(A22550020002)**

Under the supervision of

**Guide**

**Dr Deepshikha Rathore**

**Assistant Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

**Co-Guide**

**Dr Lubna Aamir**

**Associate Professor**

**Department of physics**

**University of Hail, KAS**

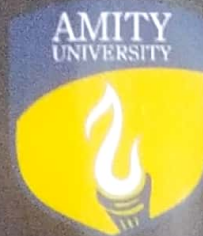
**AMITY SCHOOL OF APPLIED SCIENCES**

**AMITY UNIVERSITY RAJASTHAN**

**NH-11c, Kant Kalwar, Jaipur-303002**

**(2020-2022)**

**FABRICATION AND CHARACTERISATION OF PARTICLE  
FILLED FUNCTIONALLY GRADIENT POLYMER COMPOSITE**



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

**Master of Science**

**in**

**Applied Physics**

**By**

**KHYATI SHARMA**

**(A22550020003)**

Under the supervision of

**Guide**

**Dr. Umesh Kumar Dwivedi**

**Associate Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

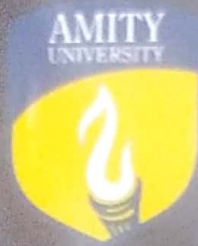
**(303002)**

**AMITY SCHOOL OF APPLIED SCIENCES  
AMITY UNIVERSITY RAJASTHAN**

**NH-11c, Kant Kalwar, Jaipur-303002  
(2020-2022)**



**Effect of Te doping in SnO<sub>2</sub> at Sn and O site: A DFT study**



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

**Master of Science**

**in**

**Applied Physics**

**By**

**Pushpendra Singh Shekhawat**

**(A22550020004)**

Under the supervision of

**Guide**

**Dr Sandip Paul Choudhury**

**Assistant Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

**Co-Guide**

**Dr Umesh Kumar Dwivedi**

**Associate Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

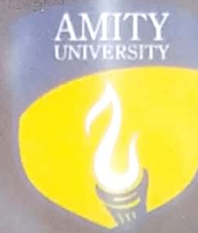
**AMITY SCHOOL OF APPLIED SCIENCES**

**AMITY UNIVERSITY RAJASTHAN**

**NIH-11c, Kant Kalwar, Jaipur-303002**

**(July 2022)**

**BFO/BTO nanocomposites as Memory Device and Gas sensor**



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

**Master of Science**

**in**

**Applied Physics**

**By**

**Rahul Singh Shekhawat**

**(A22550020005)**

Under the supervision of

**Guide**

**Dr. Deepshikha Rathore**

**Assistant Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

**Co-Guide**

**Dr. U. K. Dwivedi**

**Associate Professor**

**Amity School of Applied Sciences**

**Amity University Jaipur, Rajasthan**

**(303002)**

**AMITY SCHOOL OF APPLIED SCIENCES**

**AMITY UNIVERSITY RAJASTHAN**

**NH-11e, Kant Kalwar, Jaipur-303002**

**(2020-2022)**

# Synthesis and Characterisation of ZnO/Cu/Cd Ternary Nanocomposites



In partial fulfilment for the Award of the

Degree of

**Master of Science**

In

**Applied Physics**

By

**SONAM RAGHAV**

**(A2255002006)**

Under the Supervision of

**Dr. Umesh K. Dwivedi**  
Associate Professor  
Amity University Rajasthan

**Dr. Sandip Paul Choudhury**  
Assistant professor  
Amity University Rajasthan

Department of Applied Physics  
Amity School of Applied Sciences  
**AMITY UNIVERSITY RAJASTHAN**

**June 2022**