

LIGHT ABSORPTION THROUGH PLANT LEAVES

A Project Report Submitted

Degree of

Master of Science

In

PHYSICS

By

LAXMI TAISUM

Under the Supervision of

Dr. Ranjeet Kumar Karn



University Department of Physics Kolhan

University, Chaibasa — 833202, India

CERTIFICATE



The work contained in the project thesis entitled "LIGHT ABSORPTION THROUGH PLANT LEAVES" Submitted by LAXMI TAISUM, Roll No. 202606506075, Registration No : ICU 1510700 has been carried out under supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere.

Signed : *Ranjeet*

Supervisor: DR. RANJEET K KARN

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**A PROJECT ON
SUPERCUNDUCTING PROPERTIES
OF MgB₂**

A Project Report Submitted in Partial
Fulfilment of the Requirements for the

Degree of

MASTER OF SCIENCE

In

PHYSICS

By

ABINASH PRADHAN

Under the Supervision of

DR. RANJEET KUMAR KARN



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Certificate

The work contained in the project thesis entitled "SUPERCONDUCTING PROPERTIES OF MgB₂" submitted by Name: **ABINASH PRADHAN, Roll. NO- 202606506087, Registration No.: KU1900692** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been Submitted for the award of any other degree in the University or two any other institutions elsewhere.

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NEGATIVE REFRACTIVE INDEX METARIALS

A Project Report Submitted
In Partial fulfilment of the requirement
For the degree of

MASTER OF SCIENCE

In

PHYSICS

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The work contained in the project thesis entitled "NEGATIVE REFRACTIVE INDEX MATERIALS" submitted by Name: **PUSHPA HANSDA**, Roll No. **202606506095**, Registration No.: **KU1619540** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere.

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COSMIC RAYS

A Project Report Submitted

in Partial Fulfilment of the Requirements for the

Degree of

MASTER OF SCIENCE

in

PHYSICS

By

LEENA MOHANTA

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The work contained in the project thesis entitled "**COSMIC RAYS**" submitted by Name: **LEENA MOHANTA**, Roll No. **202606506058**, Registration No. : **KU161900690** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere.

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GENERALIZED FREQUENCY DIVISION MULTIPLEXING FOR 5G

CELLULAR SYSTEMS

A Project Report Submitted

In Partial Fulfilment of the Requirement

For The Degree Of

MASTER OF SCIENCE

IN

PHYSICS

By

RAMRAI CHAKI

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Certificate

The work contained in the project thesis entitled "**GENERALIZED FREQUENCY DIVISION MULTIPLEXING FOR 5G CELLULAR SYSTEM**" submitted by Name: **RAMRAI CHAKI**, Roll. No:**202606506054**, **Registration No: KU1900713/2019** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere.

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GENERALIZATIONS OF NOETHER'S THEOREM IN CLASSICAL MECHANICS

A Project Report Submitted
in Partial Fulfilment of the Requirements for the
Degree of
MASTER OF SCIENCE
in
PHYSICS

By
MANASMITA SAHOO

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01 June, 2021



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The work contained in the project thesis entitled **"GENERALIZATION OF NOETHER'S THEOREM IN CLASSICAL MECHANICS"** submitted by Name: **Manasmita Sahoo**, Roll. No.: **202606506060**, Registration No.: **KU1900706** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere-

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THE SUPERMASSIVE BLACK HOLL

A Project Report Submitted in Partial
Fulfillment of the Requirements for the

Degree of

MASTER OF SCIENCE

in

PHYSICS

By

BIKRAM BARIK

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1st June, 2021



Certificate

The work contained in the project thesis "**THE SUPERMASSIVE BLACK HOLE**" submitted by **BIKRAM BARIK**, Roll. No: **202606506070**. **Registration No: KU1606088** has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other elsewhere.

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**SMART HOME ANTI-THEFT SYSTEM: A NOVEL
APPROACH FOR NEAR REAL-TIME MONITORING AND
SMART HOME SECURITY FOR WELLNESS PROTOCOL**

A Project Report Submitted

in Partial Fulfilment of the Requirements

for the Degree of

MASTER OF SCIENCE

in

PHYSICS

By

DEEPAK MAHATO

Under the Supervision of



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Certificate

THE WORK CONTAINED IN THE PROJECT THESIS ENTITLED THE WORK CONTAINED IN THE DISSERTATION / PROJECT ENTITLED "SMART HOME ANTI THEFT SYSTEM: A NOVEL APPROACH FOR NEAR REAL-TIME MONITORING AND SMART HOME SECURITY FOR WELLNESS PROTOCOL" HAS BEEN CARRIED OUT UNDER MY SUPERVISION FOR A PERIOD FROM 2ND JANUARY, 2021 TO 1ST JUNE, 2021.

SUBMITTED BY

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MULTIFERROIC AS SMART MATERIALS

A Project Report Submitted
in Partial Fulfilment of the Requirements
for the Degree of
MASTER OF SCIENCE
in
PHYSICS

By
ANUJ KUMAR PRADHAN

Under the Supervision of
Dr. R. K. KARN



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India 1 June, 2021



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The work contained in the project thesis entitled "MULTIFERROIC AS SMART MATERIALS" submitted by Name: ANUJ KUMAR PRADHAN, Roll. No. 202606506088, Registration No.: KU1619432 has been carried out under the supervision of me for a period from 2nd January, 2021 to 1st June, 2021. This work has not been submitted for the award of any other degree in the University or to any other institution elsewhere.

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IMPERFECTION IN CRYSTALS AND THEIR USE

A Project Report Submitted

In Partial Fulfilment of the Requirements

For The Degree Of

MASTER OF SCIENCE

In

PHYSICS

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Under The Supervision Of

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