



Sri Dharmasthala Manjunatheshwara College (Autonomous),

Ujire-574240

(Re-Accredited by NAAC at A⁺⁺ grade)

Post Graduate Centre

Department of PG Studies and Research in Physics

A Project Report on

**“QUANTUM PHYSICAL CHEMISTRY STUDIES ON
METHYLYXANTHINES”**

**Submitted for the partial fulfillment for the award of degree in
Master of Science in Physics**

Submitted by

Ms. Sandhya B. S.

Reg No. 213815

2nd Year

M.Sc Physics

SDM PG College

Ujire-574240

Mr. Sanketh H. S.

Reg No. 213817

2nd Year

M.Sc Physics

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Supervised by

Dr. Raghavendra S.

Head of Department

PG Studies & Research in

Physics

SDM PG Center

Ujire-574240

August 2023



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Post Graduate Centre

Department of PG Studies and Research in Physics

A Project Report on

PYTHON IN THE WORLD OF PHYSICS

Submitted for the partial fulfillment for the award of degree in

Master of Science in Physics

Submitted by

Mr. Adithya Jois .H .S

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August 2023



SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(Autonomous) UJIRE-574240

Re-Accredited by NAAC at "A++" Grade

Department of PG Studies and Research in Physics

A Project Report on

A STUDY AND OVERVIEW OF THE

CONTRIBUTIONS OF

Dr. C. S. UNNIKRISHNAN IN THE FIELD OF

PHYSICS

Submitted for the partial fulfillment for the award of degree in

MASTER OF SCIENCE

in

PHYSICS

Submitted by

Mr. ABHIRAJ T P (Reg. No: 213801)

Ms. ADARSHA S P (Reg. No: 213802)

Under the guidance of

Dr. RAGHAVENDRA S

Associate Professor & Head

AUGUST 2023



SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE(AUTONOMOUS)

Ujire-574240

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

**Department of Postgraduate Studies and Research in Physics
(Affiliated to Mangalore University)**

A Project Report on

**FIELD: PHYSICAL INTERPRETATION OF A
MATHEMATICAL FRAMEWORK**

**Submitted for the partial fulfilment for the award of degree in
Master of Science in Physics**

Submitted by

Ms. Sandhya M (213816)

Under the guidance of

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Associate Professor and Head of Department

Department of Postgraduate Studies and Research in Physics

August-2023



SRI DHARMASTHALA MANJUNATHESWARA COLLEGE

(AUTONOMOUS) UJIRE - 574240

Re-Accredited at A++ by NAAC

A Project Report on
A COMPARATIVE STUDY OF HYPERFINE SPLITTING ENERGY AND DECAY
WIDTHS OF EXOTIC ATOMS FORMED BY LEPTONS

Submitted for the Partial Fulfilment for the Award of Degree in
Master of Science in Physics

Submitted by
Ms. Savitha A G (213818)

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Dr. Raghavendra S
Associate Professor and H.O.D
Department of Post Graduate Studies and Research in Physics

August 2023



SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE

(AUTONOMOUS), UJIRE - 574240

Re-Accredited at A⁺⁺ Grade by NAAC

A Project Report on
"DESIGN AND CHARACTERISATION OF MICROSTRIP PATCH ANTENNA
ARRAYS"

Submitted for the partial fulfilment for the award of degree in

Master of Science in Physics

Submitted by

Mr. Arjun K (213804)

Ms. Arya P (213805)

Mr. Aswin Ajith A (213806)

Ms. Jeslin Maria George (213811)

Mr. Mathews Jose (213814)

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August 2023



SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
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Re-Accredited by NAAC with "A+" Grade

Department of Postgraduate Studies and Research in Physics

(Affiliated to Mangalore University)

A Project Report on

**"OPTICAL LIMITING PROPERTIES OF COPPER CHLORIDE FUSED
VANADIUM OXIDE THIN FILMS FOR NLO APPLICATIONS"**

**Submitted for the Partial Fulfilment for the Award of a Degree in
Master of Science in Physics**

Submitted by

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Mr. Vishnu H (213821)

Under the Guidance of

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Assistant Professor

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August - 2023



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), Ujire-574240**

Re-Accredited by NAAC with "A++" Grade

Department of Postgraduate Studies and Research in Physics

(Affiliated to Mangalore University)

A Project Report on

**"DEPOSITION AND CHARACTERIZATION OF TIN CHLORIDE DOPED
VANADIUM STRUCTURES FOR NLO APPLICATIONS"**

Submitted for the Partial Fulfillment for the Award of a Degree in

Master of Science in Physics

Submitted by

Ms. Shruthi Mohan (213819)

Ms. Thanima B Chandran (213820)

Ms. Divya P (213822)

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August-2023



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE
(AUTONOMOUS), UJIRE – 574240**

Re-Accredited by NAAC with "A++" Grade

**Department of Postgraduate Studies and Research in Physics
(Affiliated to Mangalore University)**

A Project Report on

**“Study of Sierpinski Gasket Fractal Antennas (SGFA) and Its Array
with Different Patch Geometries and Feed Dimensions for Wireless
Applications”**

Submitted for the partial fulfilment for the award of degree in

Master of Science in Physics

Submitted by

Ms. Deepa S Bapat	213808
Ms. Deepthi	213809
Ms. Inchara	213810
Ms. M Kalanjali	213813

Under the guidance of

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August - 2023