

ST. THOMAS COLLEGE

Ranni, Pathanamthitta, Kerala – 689673 ACCREDITED BY NAAC WITH 'B' GRADE

1.3.2: Students projects for the academic year 2021-22

Projects of M.Sc Physics

CRITERION: 1

CURRICULAR ASPECTS

This is to certify that the dissertation entitled "SYNTHESIS AND **BISMUTH** DECORATED CHARACTERISATION OF Ag COPRECIPITATION OXYBROMIDE **NANOPARTICLES** BY METHOD AND ITS PHOTOCATALYTIC ACTIVITY" was carried by Ms. Ansu Susan Abraham (200011013979) at Department of Physics, St. Thomas College, Ranni and Photovoltaic Research Center Christian College, Chengannur under the guidance of Smt.Anju Joseph, in partial fulfillment for the degree of masters in science during the year 2020-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Smt. Anju Joseph

Department of Physics

St.Thomas College, Ranni

Place: Ranni

Date:

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External Examiner

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This is to certify that the dissertation entitled "HYDROTHERMAL SYNTHESIS OF BISMUTH OXYBROMIDE NANOSTRUCTURES AND ITS PHOTOCATALYTIC ACTIVITY" was carried by Ms.ASHLY VARGHESE (200011013980) at Department of Physics, St. Thomas College, Ranni and Photovoltaic Research Centre Christian College, Chengannur under the guidance of Smt.Anju Joseph, in partial fulfilment for the degree of masters in science during the year 2020-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Smt. Anju Joseph

Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date: 29-09-2022

External Examiner

1. Szevalsok

2. 429



This is to certify that the dissertation entitled "Synthesis and Characterisation of Nanocrystalline Ba₃ZnNb₂O₉ and Ba₈ZnNb₆O₂₄ ceramics" was carried by Ms. Athira Anil under the guidance of Dr. Suresh M K, Department of Physics, St.Thomas College, Ranni in partial fulfilment for the Degree of Masters of Science in Physics during the academic year 2020-2022 of Mahatma Gandhi University, Kottayam.

He is permitted to submit this work to the university.

Mrs. Anju joseph

HOD, Dept. of Physics

ST. Thomas College

Ranni, pathanamthitta

External Examiner:

1. Sreevalsa K Stackar



ST. THOMAS COLLEGE, RANNI

(Affiliated to Mahatma Gandhi University, Kottayam)



CERTIFICATE

This is to certify that the project work entitled "Optical properties of Synthesized Li doped SnO/SnO2 hybrid Nanocrystals" is a Bona fide record of the work done by GOKUL VIJAY (Reg No:200011013982) in partial fulfillment for the requirement of the award of the degree of Master of Science in Physics (Electronics) during the year 2020-2022.

Mrs .Anju joseph HOD,of

Dept.of physics

ST.Thomas College

Ranni, Pathanamthitta

External Examiners

Internal Examiner

1. Ang. ______

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19/9/2

This is to certify that the dissertation entitled "Synthesis and Characterisation of Nanocrystalline Ba₃ZnNb₂O₉ and Ba₈ZnNb₆O₂₄ ceramics" was carried by Mr. Goutham Vijay under the guidance of Dr. Suresh M K, Department of Physics, St. Thomas College, Ranni in partial fulfilment for the Degree of Masters of Science in Physics during the academic year 2020-2022 of Mahatma Gandhi University, Kottayam.

He is permitted to submit this work to the university.

Mrs. Anju joseph

HOD, Dept. of Physics

ST. Thomas College

Ranni, pathanamthitta

External Examiner:

1. Szervalsa K

2.





ST. THOMAS COLLEGE RANNI DEPARTMENT OF PHYSICS

Mrs. ANJU JOSEPH

Head of the Department

CERTIFICATE

This is to certify that the work "EFFECT OF ANNEALING & SUBSTRATE ON STRUCTURAL AND OPTICAL PROPERTIES OF MnO₂ THIN FILMS BY MAGNETRON SPUTTERING" is a bonafide work done and submitted by Mr. GOUTHAM KRISHNA S (Reg no 200011013984) in partial fulfilment of MSc. Degree in physics during the academic year 2020 -2022 of Mahatma Gandhi university, Kottayam.

ANJU JOSEPH





CERTIFICATE OF EVALUATION

This is to certify that the work "EFFECT OF ANNEALING & SUBSTRATE ON STRUCTURAL AND OPTICAL PROPERTIES OF MnO2 THIN FILIM BY MAGNETRON SPUTTERING" is a bonafide work done and submitted by Mr. GOUTHAM KRISHNA S (Reg no 200011013984) in partial fulfilment for the award of M.Sc. degree in Physics during the academic year 2020 -2022 of Mahatma Gandhi University, Kottayam

Examiners

1. Socovalsa K



This is to certify that the project report entitled "TIMING ANALYSIS OF THERMONUCLEAR X-RAY BURST FROM LMXB 4U 1636-536" towards the partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is carried out by JURIS N J (Reg. No. 200011013985) under the joint supervision of Dr. Marykutty James, Assistant Professor, Department of Physics, St. Thomas College, Ranni and Dr. Jincy Devasia, Assistant Professor, Henry Baker College, Melukavu during the academic year 2021-2022.

Marykutty James

Project Supervisor

St. Thomas College, Ranni

di Jerasia

Dr. Jincy Devasia

Co-Supervisor

Henry Baker College, Melukavu



This is to certify that the project report entitled "TIMING ANALYSIS OF THERMONUCLEAR X-RAY BURST FROM LMXB 4U 1636-536" towards the partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is carried out by JURIS N J (Reg. No. 200011013985) under the joint supervision of Dr. Marykutty James, Assistant Professor, Department of Physics, St. Thomas College, Ranni and Dr. Jincy Devasia, Assistant Professor, Henry Baker College, Melukavu during the academic year 2021-2022.

Dr. Marykutty James

Project Supervisor

Dr. Jincy Devasia

Co-Supervisor

Examiner 1.

Sreevalsa. K the

Examiner 2.

Asst.Prof. Anju Joseph

Head of the Department of Physics

St. Thomas College, Ranni

This is to certify that the dissertation entitled "SYNTHESIS AND **CHARACTERISATION** OF **BISMUTH** OXYBROMIDE NANOSTRUCTURES BY COPRECIPITATION METHOD AND ITS PHOTOCATALYTIC ACTIVITY" was carried by Ms.Navya John (200011013986) at Department of Physics, St.Thomas College, Ranni and Photovoltaic Research Center Christian College, Chengannur under the guidance of Smt.Anju Joseph, in partial fulfillment for the degree of masters in science during the year 2020-2022 of Mahatma Gandhi University, Kottayam.

Smt. Anju Joseph

Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date:

External Examiner

1. Soovalsa K 6.







ST. THOMAS COLLEGE RANNI DEPARTMENT OF PHYSICS

Mrs. ANJU JOSEPH
Head of the Department

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CERTIFICATE

This is to certify that the work "EFFECT OF ANNEALING & SUBSTRATE ON STRUCTURAL AND OPTICAL PROPERTIES OF MnO₂ THIN FILMS BY MAGNETRON SPUTTERING" is a bonafide work done and submitted by Mr. NIKHIL RAVI (Reg no 200011013987) in partial fulfilment of MSc. Degree in physics during the academic year 2020 -2022 of Mahatma Gandhi university, Kottayam.

ANJU JOSEPH



CERTIFICATE OF EVALUATION

This is to certify that the work "EFFECT OF ANNEALING & SUBSTRATE ON STRUCTURAL AND OPTICAL PROPERTIES OF MnO2 THIN FILIM BY MAGNETRON SPUTTERING" is a bonafide work done and submitted by Mr. NIKHIL RAVI (Reg no 200011013987) in partial fulfilment for the award of M.Sc. degree in Physics during the academic year 2020 -2022 of Mahatma Gandhi University, Kottayam

Examiners

1. Skeevalsa. K De.



This is to certify that the dissertation entitled "Synthesis and Characterisation of Nanocrystalline Ba₈ZnNb₆O₉ and Ba₃MgNb₂O₉ ceramics" was carried by Ms. Rekha R Nair under the guidance of Dr. Suresh M K, Department of Physics, St.Thomas College, Ranni in partial fulfilment for the Degree of Masters of Science in Physics during the academic year 2020-2022 of Mahatma Gandhi University, Kottayam.

she is permitted to submit this work to the university.

Mrs. Anju joseph

HOD, Dept. of Physics

ST. Thomas College

Ranni, pathanamthitta

External Examiner:

1. Sreevalsa.K.



This is to certify that the project report entitled "TIMING ANALYSIS OF THERMONUCLEAR X-RAY BURST FROM LMXB 4U 1636-536" towards the partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is carried out by Riya Fathima K K (Reg. No. 200011013989) under the joint supervision of Dr. Marykutty James, Assistant Professor, Department of Physics, St. Thomas College, Ranni and Dr. Jincy Devasia, Assistant Professor, Henry Baker College, Melukavu during the academic year 2021-2022.

Dr. Marykutty James

Project Supervisor

St. Thomas College, Ranni

Dr. Jincy Devasia

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Co-Supervisor

Henry Baker College, Melukavu



This is to certify that the project report entitled "TIMING ANALYSIS OF THERMONUCLEAR X-RAY BURST FROM LMXB 4U 1636-536" towards the partial fulfillment of the requirements for the award of the degree of Master of Science in Physics is carried out by Riya Fathima K K(Reg. No. 200011013989) under the joint supervision of Dr. Marykutty James, Assistant Professor, Department of Physics, St. Thomas College, Ranni and Dr. Jincy Devasia, Assistant Professor, Henry Baker College, Melukavu during the academic year 2021-2022.

Dr. Marykutty James

Project Supervisor

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Dr. Jincy Devasia

Co-Supervisor

Examiner 1. See evalsa. U. .

Examiner 2. 2 3 4 2 4 5 1

Asst.Prof. Anju Joseph

Head of the Department of Physics

St. Thomas College, Ranni

This is to certify that the dissertation entitled "Synthesis and Characterisation of Nanocrystalline BasZnNb6O24 and Ba3MgNb2O9 ceramics" was carried by Mrs. Vineetha devadas under the guidance of Dr. Suresh M K, Department of Physics, St. Thomas College, Ranni in partial fulfilment for the Degree of Masters of Science in Physics during the academic year 2020-2022 of Mahatma Gandhi University, Kottayam.

she is permitted to submit this work to the university.

Mrs. Anju joseph

HOD, Dept. of Physics

ST. Thomas College

Ranni, pathanamthitta

External Examiner:



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