

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 B.Sc Physics

CRITERION: 1

CURRICULAR ASPECTS



CERTIFICATE

This is to certify that the project entitled "FIRE SENSING ALARM" is a bona fide record of work done by **ABHIRAJ T R (190021041030)** at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2021-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Ms. Soumyamol K.S.

Department of Physics

Mrs. Anju Joseph

(Head of the Department)



Internal Examiner

Margherty Imes 1 Porume m k-s Sour

External Examiner

Date: 17/05/2022

This is to certify that the project entitled 'Simple Two-Way Intercom System' is a bonafide record of work done by Abhirami Jayaraj (Reg. No.: 190021041031) at Department of Physics, St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of Bachelor Degree in Physics.

Dr. Suresh M. K.

Asst. Professor

(Project Guide)

Mrs. Anju Joseph

Head of Department

Department of Physics

Examiners:

Maryteety James Table Soungant bis Soungs Date:

This is to certify that the dissertation entitled "MOTION DETECTOR ALARM" was carried by Ms.ANJANA P (190021021041032) at St.Thomas College, Ranni under the guidance of Ms. JISS VARGHESE, Department of Physics, St. Thomas College, Ranni in partial fulfillment for the degree of Bachelor of Science during the year 2019-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Ms. JISS VARGHESE

Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date: 17/5/22

Internal Examiner

Marykety Jemes takk

External Examiner

Soumiya med ks Some

Date: 17/5/22

This is to certify that the project entitled 'Simple Two-Way Intercom System' is a bonafide record of work done by Anson K.S. (Reg. No.: 190021041033) at Department of Physics, St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of Bachelor Degree in Physics.

Dr. Suresh M. K.

Asst. Professor

(Project Guide)

Mrs. Anju Joseph

Head of Department

Department of Physics

Examiners:

Marykutty somes taxob Soungaml ks Soungamente:

Date:



CERTIFICATE

This is to certify that the project entitled "SOLAR AUTOMATIC STREET LIGHT SYSTEM" is a bona fide record of work done by ARUN MOHAN (190021041034) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Ms. Jiss Varghese

Department of Physics

Mrs. Anju Joseph

(Head of the Department)

Internal Examiner

Ms. Jiss Varghese

External Examiner

Date: 17/05/2022.

Souriyand k.S Sonnya

ST THOMAS COLLEGE ,RANNY



CERTIFICATE

This is to certify that thr project entitiled" RAIN DETECTION ALARM" is a bonafide record of work done by GAYATHIRI RAJAGOPAL (190021041035) at St.Thomas college,Ranny under Mahatma Gandhi University,kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Department of Physics

Mary beitty James

Mrs .Anju Joseph (Head of the department)

Internal Examiner

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Guided by: 5xeevalsa K

External Examiner:

Date:17-05-2022

This is to certify that the dissertation entitled "WATER LEVEL INDICATOR USING TRANSISTER" was carried by Ms, JEENA P K (190021041037) at St. Thomas College, Ranni under the guidance of Ms. MARYKUTTY JAMES, Department of Physics, St. Thomas College, Ranni in partial fulfillment for the degree of Bachelor of Science during the year 2019-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Ms. MARYKUTTY JAMES

Tosleb

Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date: 9/5/22

Internal Examiner

Marghetty James takely Sounger of ks Soungs

External Examiner

Date: 17/5/20

This is to certify that the project entitled 'Synthesis and Characterization of Bismuth Oxyiodide Nanostructures for Efficient Visible Light Active Photocatalytic Removal of Organic Dyes from Waste Water' is a bona fide record of work done by NANDHUS NAIR (Reg. No: 190021041038) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in physics.

Mrs. Anju Joseph

Mrs. Anju Joseph

Head of Department

(Teacher in charge)

Head of Department

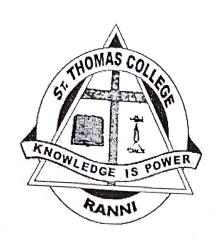
Department of Physics

Internal Examiner

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Mrs. Anju Joseph

ST THOMAS COLLEGE **RANNI**



PROJECT REPORT

A STUDY OF WAVELENGTH DEPENDENT CHARACTERISTICS OF A PHOTODIODE

Submitted in the partial fulfillment of the requirement of Bachelors degree in Physics

SUBMITTED BY

SARANYA P KUMAR

Reg No: 190021041040

EXAMINERS

1. Do Marykutty James Taste 2. Sounge mel K-S Soun.

PROFESSOR IN CHARGE

JOBIN JOSE MATHEW

This is to certify that the dissertation entitled "MOTION DETECTOR ALARM" was carried by Ms.SHIJI MOL S(190021021041041) at St.Thomas College, Ranni under the guidance of Ms. JISS VARGHESE, Department of Physics, St. Thomas College, Ranni in partial fulfillment for the degree of Bachelor of Science during the year 2019-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Ms. JISS VARGHESE

Department of Physics

St. Thomas College, Ranni

Place : Ranni

Date : 9 5 22

Internal Examiner

Marykutty Imes Test & Soungant kis Sounge

External Examiner

Date: 17/5 22

ST THOMAS COLLEGE ,RANNY



CERTIFICATE

This is to certify that thr project entitiled" RAIN DETECTION ALARM" is a bonafide record of work done by AKHIL KRISHNAN S (190021041042) at St. Thomas college, Ranny under Mahatma Gandhi University, kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Department of Physics

Mrs .Anju Joseph (Head of the department)

Internal Examiner

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Guided by: Szevalsak 45

External Examiner: Surge

Date:17-05-2022

This is to certify that the project entitled 'Synthesis and Characterization of Bismuth Oxyiodide Nanostructures for Efficient Visible Light Active Photocatalytic Removal of Organic Dyes from Waste Water' is a bona fide record of work done by ARAVINDKRISHNA G (Reg. No: 190021041043) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in physics.

Mrs. Anju Joseph

Mrs. Anju Joseph

Head of Department

(Teacher in charge)

Head of Department

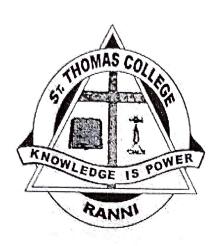
Department of Physics

Internal Examiner

Mary katty Jemes Takes Loumiya mil kis Deumya. Guided by

Mrs. Anju Joseph

ST THOMAS COLLEGE RANNI



PROJECT REPORT

A STUDY OF WAVELENGTH DEPENDENT **CHARACTERISTICS OF A PHOTODIODE**

Submitted in the partial fulfillment of the requirement of Bachelors degree in Physics

SUBMITTED BY

GAYATHRI B

Reg No: 190021041044

EXAMINERS

1. Moragketty times telety
2. Sownye not les Sowy

PROFESSOR IN CHARGE

JOBIN JOSE MATHEW



CERTIFICATE

This is to certify that the project entitled "SOLAR AUTOMATIC STREET LIGHT SYSTEM" is a bona fide record of work done by JOBIN J JOHN (190021041045) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Ms. Jiss Varghese

Department of Physics

Mrs. Anju Joseph

(Head of the Department)

Internal Examiner

Soumyaml t.s Soumya.

Ms. Jiss Varghese

External Examiner

Marghanty James Touching

Date:

17/5/22



CERTIFICATE

This is to certify that the project entitled "FIRE SENSING ALARM" is a bona fide record of work done by KRISHNA PRABHA S (190021041046) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2021-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Department of Physics

Mrs. Anju Joseph

(Head of the Department)

Internal Examiner

Soumyamol to Soums External Examiner

Date: 👊

This is to certify that the project entitled 'Simple Two-Way Intercom System' is a bonafide record of work done by MEGHA (Reg. No: 190021041047) at Department of Physics, St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of Bachelor Degree in Physics.

Dr. Suresh M. K.

Asst. Professor

(Project Guide)

Mrs. Anju Joseph

Head of Department

Department of Physics

Examiners:

Marghently James Tale Soungaml ks Soungs

Date:

This is to certify that the project entitled 'Synthesis and Characterization of Bismuth Oxyiodide Nanostructures for Efficient Visible Light Active Photocatalytic Removal of Organic Dyes from Waste Water' is a bona fide record of work done by NANDANA MURALEEDHARAN (Reg. No: 190021041048) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in physics.

Mrs. Anju Joseph

Mrs. Anju Joseph

Head of Department

(Teacher in charge)

Head of Department

Department of Physics

Internal Examiner

Marylanty James 1-566s Soungal mil ks Sounga Guided by

Mrs. Anju Joseph



CERTIFICATE

This is to certify that the project entitled "FIRE SENSING ALARM" is a bona fide record of work done by SHARU JOSEPH (190021041049) at St. Thomas College, Ranni under Mahatma Gandhi University, Kottayam during the year 2021-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Department of Physics

Mrs. Anju Joseph

(Head of the Department)

Internal Examiner

Marghetty James Tards
Roumya M k.s Soumya
External Examiner

Date: 17/5 22

This is to certify that the dissertation entitled "WATER LEVEL INDICATOR USING TRANSISTER" was carried by Mr. SREERAJ K J (190021041051) at St. Thomas College, Ranni under the guidance of Ms. MARYKUTTY JAMES, Department of Physics, St. Thomas College, Ranni in partial fulfillment for the degree of Bachelor of Science during the year 2019-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Ms. MARYKUTTY JAMES

Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date : 10/5/22

Internal Examiner

Marghanty Jernes talk-& Sourge of K-S Lange

External Examiner

Date: 17/5/20

This is to certify that the dissertation entitled "WATER LEVEL INDICATOR USING TRANSISTER" was carried by Ms, SURYA S T (190021041052) at St. Thomas College, Ranni under the guidance of Ms. MARYKUTTY JAMES, Department of Physics, St. Thomas College, Ranni in partial fulfillment for the degree of Bachelor of Science during the year 2019-2022 of Mahatma Gandhi University, Kottayam.

Project Guide

Ms. MARYKUTTY JAMES

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Department of Physics

St. Thomas College, Ranni

Place: Ranni

Date: |0|5/2

Internal Examiner

Marylenty James Tolks Soumyamd ks Soumya

External Examiner

Date: 175/22

ST THOMAS COLLEGE, RANNY



CERTIFICATE

This is to certify that the project entitiled" RAIN DETECTION ALARM" is a bonafide record of work done by THARESH M (190021041053) at St. Thomas college, Ranny under Mahatma Gandhi University, kottayam during the year 2019-2022 in partial fulfillment of requirement for the award of graduate degree in Physics.

Department of Physics

Mrs .Anju Joseph (Head of the department)

Internal Examiner
May cuity James tables

Guided by: Soveralsa K

External Examiner:

Date:17-05-2022