

### **CRITERIA-3**

3.5 Collaboration

# 3.5.1: MoUs/Linkages/Collaboration 2021-22.

### MoU between Department of Physics, WMO Arts and Science College, Muttil vs. Department of Physics, St. Mary's College, Sulthan Bathery- Wayanad

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ONE

**HUNDRED RUPEES** 

**MEMORANDAM OF UNDERSTANDING (MOU)** 

#### BETWEEN

Department of Physics, WMO Arts & Science College, Muttil Department of Physics, St. Mary's college, Sulthan Bathery.

This MOU is entered on 21st August 2021 between Department of Physics, WMO Arts & Science College (here in after called WMOC Physics) situated at Muttil, Kerala, India and Department of Physics, St. Mary's college (here in after called as SMC Physics), situated at Sulthan Bathery, Kerala, India do hereby agree to the followings: Bijn. K.G EF Shibina.T Ship

1. 2. John Mathai

610812021 Parmerpul

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WMO Arts & scence College maria

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The Memorandum of Understanding (MOU) between WMOC Physics and SMC Physics sets forth an agreement:

- 1. To promote combined efforts to provide coaching for BSc physics students for competitive examinations of various national intuitions.
- 2. To exchange facilities and resources for student projects.
- To take up combined extension activities in neighbouring villages/localities and schools for science popularisation.
- To exchange resources for conducting seminars / Workshops and other programmes for the benefit of the student community.

Towards the above stated programs and objectives, WMOC Physics will associate with SMC Physics and assist each other.

Signed on 21st August 2021,

Dr. TP Muhammed Fareed Principal, WMO Arts & Science College, Muttil

Dr.Biju K G Head, Department of Physics, WMO Arts and Science College

Mr. John Mathai, Principal, St.Mary's College, Sulthan Bathery

Ms. Shibina T, Head, Department of Physics, St.Mary's College, Sulthan Bathery



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#### **ACTIVITY REPORT**

#### MOU with St. Mary's college, Sultan Bathery.

Link to MoU: https://wmocollege.ac.in/uploads/WMO\_SMC\_PHYSICS\_MOU0011.pdf

Following collaborative activities have been conducted in connection with the Memorandum of Understanding (MOU) signed on 21-08-2021 between the Department of Physics, WMO Arts and Science College, Muttil, and this Department.

- Mr. Sunil John (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. FASALUL FARISA KP (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Durational analysis of plosive sound with the context of their position in Malayalam word", during 2021-22 Academic year.
- Mr. Sunil John (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. HASNA K (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "An investigation into the world level relative time characteristics of Malayalam non-plosive sounds", during 2021-22 Academic year.
- Dr. Pramodkumar KS (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. HARIPRIYA (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Synthesis and characterisation of Fe3O4 nanoparticles doped with CO2+ and Mg 2+-A comparative study", during 2021-22 Academic year.
- Mr. Sreejith CS (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. ASWATHY MR (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Non-extensive statistical mechanics- A literature review", during 2021-22 Academic year.
- Mr. Sreejith CS (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. KAVYA KJ (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "A study on quark-gluon plasma", during 2021-22 Academic year.
- 6. A group of I-semester UG and PG students visited our Department on 30-09-2022 and interacted with the students and faculty members.





# ST. MARY'S COLLEGE

Sulthan Bathery, Wayanad Kerala, 673592

A Postgraduate Aided Arts & Science College of Malankara Orthodox Syrian Church Affiliated to the University of Calicut

NAAC ACCREDITED WITH 'A' GRADE

#### Certificate of Collaboration

This is to certify that the following collaborative activities have been conducted in connection with the Memorandum of Understanding (MOU) signed on 21-08-2021 between the Department of Physics, WMO Arts and Science College, Muttil, and Department of Physics, St.Mary's College, Sulthan Bathery.

- Mr. Sunil John (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. FASALUL FARISA KP (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Durational analysis of plosive sound with the context of their position in Malayalam word", during 2021-22 Academic year.
- 2. Mr. Sunil John (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. HASNA K (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "An investigation into the world level relative time characteristics of Malayalam non-plosive sounds", during 2021-22 Academic year.
  - Dr.Pramod K S (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. HARIPRIYA (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Synthesis and characterisation of Fe3O4 nanoparticles doped with CO2+ and Mg 2+- A comparative study", during 2021-22 Academic year.
- Mr. Sreejith CS (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. ASWATHY MR (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "Non-extensive statistical mechanics- A literature review", during 2021-22 Academic year.
- Mr. Sreejith CS (Assistant Professor of Physics, St. Mary's College, S. Bathery) Guided Ms. KAVYA KJ (MSc Physics Student, WMO College, Muttil) in her MSc project on the topic "A study on quark-gluon plasma", during 2021-22 Academic year.
- A group of I-semester UG and PG students of WMO College Muttil visited Department of Physics, St.Mary's College, Sulthan Bathery on 30-09-2022 and interacted with the students and faculty members.

Head of the Department

P.G. Department of Physics St. Mary's College S. Sattlery







#### A PROJECT REPORT ON

### DURATION ANALYSIS OF PLOSIVE SOUNDS IN THE CONTEXT OF THEIR POSITION IN MALAYALAM WORDS

### SUBMITTED TO THE UNIVERSITY OF CALICUT IN PARTIAL

### FULFILMENT OF REQUIREMENT FOR THE AWARD OF

THE

DEGREE OF

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in-673122

& SCIENCE

MASTER OF SCIENCE IN PHYSICS

Submitted by

FASALUL FARISA KP

Register No: WMAUMPH006

DEPARTMENT OF PHYSICS

WMO ARTS AND SCIENCE COLLEGE, MUTTIL



Under The Guidance Of

SUNIL JOHN

Asst Professor, St. Mary's College, Sulthan Batheri



Mr. SUNIL JOHN Asst. Professor

Department of Physics St. Mary's College Sulthan Bathery

#### CERTIFICATE

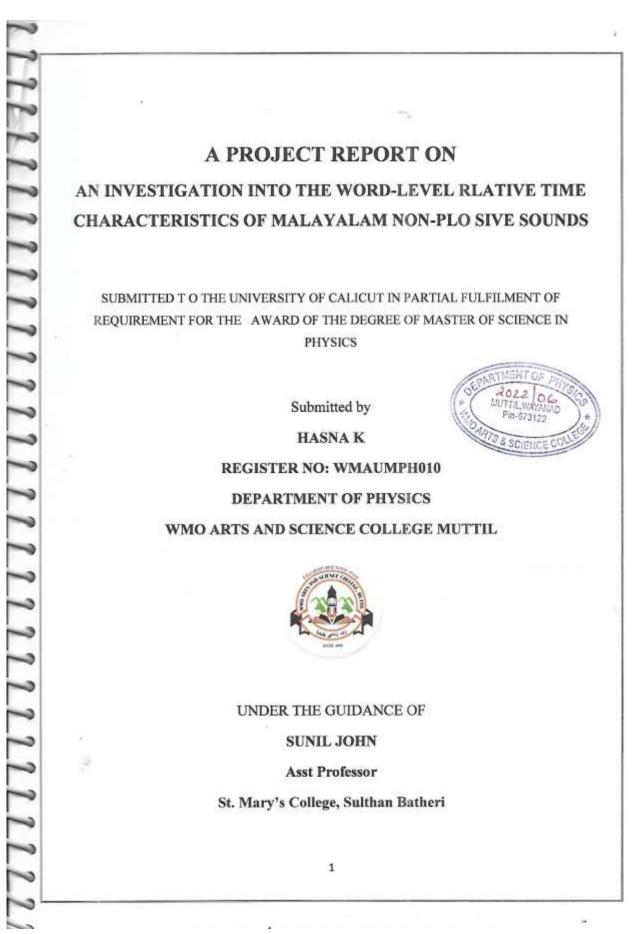
This is to certify that the project report entitled "DURATION ANALYSIS OF PLOSIVE SOUNDS IN THE CONTEXT OF THEIR POSITION IN MALAYALAM WORDS", submitted by Ms FASALUL FARISA K P (Reg.No:WMAUMPH006), WMO Arts & Science College, Muttil is a bona fide record of research work done by her during the academic year 2021-22, under my guidance and that the thesis has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate. This is also to clarify that the thesis represents the independent work done by the candidate.

Place : Sulthan Bathery Date :

Mr. SUNIL JOHN SUNIL - DHN Asst Proterson P.G.Dept of Physics St Mars's College Subtrac Sathery Receils









Mr. SUNIL JOHN Asst. Professor

Department of Physics St. Mary's College SulthanBathery

#### CERTIFICATE

This is to certify that the project report entitled "AN INVESTIGATION INTO THE WORD-LEVEL RELATIVE TIME CHARACTERISTICS OF MALAYALAM NON – PLOSIVE SOUNDS", submitted by Ms. HASNA K (Reg.No:WMAUMPH010), WMO Arts & Science College, Muttil is a bona fide record of research work done by her during the academic year 2021-22, under my guidance and that the thesis has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate. This is also to clarify that the thesis represents the independent work done by the candidate.

Place : Sulthan Bathery Date :

Mr. SUNIL JOHN BURR. . \*DHN Asst. Professor P.G.Dept of Physics Br Mais's College Bullions Bathery Fromb





### SYNTHESIS AND CHARACTERIZATION OF Fe<sub>3</sub>O<sub>4</sub> NANOPARTICLES DOPED WITH Co<sup>2+</sup>AND Mg<sup>2+</sup> -A COMPARATIVE STUDY

Project report submitted to The University of Calicut in partial fulfilment of the requirement

of the award of degree of MASTER OF SCIENCE IN PHYSICS

Submitted by

HARIPRIYA B

WMAUMPH009

Under the guidance of

Dr. PRAMOD K.S

Post Graduate and Research Department of Physics

St. Mary's College, Sulthan Bathery



DEPARTMENT OF PHYSICS WMO ARTS AND SCIENCE COLLEGE MUTTIL, WAYANAD 2020-2022





Dr. PRAMOD K.S Asst. Professor and research guide

Department of Physics St. Mary's College Sulthan Bathery

#### CERTIFICATE

This is to certify that the project report entitled "SYNTHESIS AND CHARACTERIZATION OF Fe<sub>3</sub>O<sub>4</sub> NANOPARTICLES DOPED WITH CO<sup>2+</sup> AND Mg<sup>2+</sup> - A COMPARATIVE STUDY", submitted by Ms HARIPRIYA B (Reg.No:WMAUMPH009), WMO Arts & Science College, Muttil is a bona fide record of research work done by her during the academic year 2021-22, under my guidance and that the thesis has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate. This is also to clarify that the thesis represents the independent work done by the candidate.

Place : Sulthan Bathery Date :



Dr. PRAMOD K.S

DR. PRAMOD. K.S Assu Professor Dept. of Physics St. mery's College Sultion Bathery - Kerala



### NON EXTENSIVE STATISTICAL MECHANICS

#### (A LITERATURE REVIEW)

Project report submitted to The University of Calicus in partial fulfilment of the requirement

of the award of degree of MASTER OF SCIENCE IN PHYSICS

Submitted by

ASWATHY M.R.

WMAUMPH003

Under the guidance of

#### SREEJITH C.5

Assistant Professor

Post Graduate and Research Department of Physics

St. Mary's College, Sulthan Bathery



DEPARTMENT OF PHYSICS WMO ARTS AND SCIENCE COLLEGE MUTTIL, WAS ANAD 2019-2022

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Mr. SREEJITH C S Asst. Professor

Department of Physics St. Mary's College SulthanBathery

#### CERTIFICATE

This is to certify that the project report entitled "NON EXTENSIVE STATISTICAL MECHANICS- A LITERATURE REVIEW", submitted by Ms ASWATHI M R (Reg.No:WMAUMPH003), WMO Arts & Science College, Muttil is a bona fide record of research work done by her during the is a bona fide record of research work done by her during the academic year 2021-22, under my guidance and that the thesis has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate.

This is also to clarify that the thesis represents the independent work done by the candidate

Place : Sulthan Bathery Date :

Mr. SREEJITH C S





## A STUDY ON QUARK GLUON PLASMA

### (A LITERATURE REVIEW)

Project report submitted to The University of Colicut in partial fulfillment of the requirement

of the award of degree of MASTER OF SCIENCE IN PHYSICS

Submitted hy

KAVIYA K J

REGISTER NO: WMAUMPH012

Under the guidance of

#### SREEJITH C S

Post Graduate and Research Department of Physics

St. Mary's College, Sulthan Bathery





Mr. SREEJITH C S Asst. Professor

Department of Physics St. Mary's College Sulthan Bathery

#### CERTIFICATE

This is to certify that the project report entitled "A STUDY ON QUARK GLUON PLASMA", submitted by KAVIYA K J (Reg.No:WMAUMPH012), WMO Arts & Science College, Muttil is a bona fide record of research work done by her during the academic year 2021-22, under my guidance and that the thesis has not previously formed the basis for the award of any degree, diploma, associateship, fellowship or any other similar title to the candidate.

This is also to clarify that the thesis represents the independent work done by the candidate.

Place : Sulthan Bathery Date :



Mr. SREEJITH C S



### 7. Visit to St. Mary's College, S. Bathery.

22 Students and two faculty members visited the Department of Physics, St. Mary's college, sulthan bathery on 30-09-2022 and interacted with the faculty members and students.

