

AN INTRODUCTION TO FUZZY SET THEORY

A Project report submitted to
UNIVERSITY OF CALICUT
FROM
EMEA COLLEGE OF ARTS AND SCIENCE, KONDOTTY



In partial fulfilment for the award of the Degree of
BACHELOR OF SCIENCE

In

MATHEMATICS AND PHYSICS (DOUBLE MAIN)

By

FATHIMA BUSTHANA C - EMAVSDM020

FATHIMA RIDHA K P - EMAVSDM021

MAEEDA C P - EMAVSDM022

SHIFANA SHERIN K - EMAVSDM023

MOHAMMED FASEEH M - EMAVSDM010

Under the Supervision of

Mrs. SUNEENA P D

**DEPARTMENT OF MATHEMATICS AND PHYSICS (DOUBLE MAIN), EMEA COLLEGE
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KERALA - 673638

MARCH 2024

CERTIFICATE

This is to certify that the project entitled "AN INTRODUCTION TO FUZZY SET THEORY" submitted for the award of the BSc degree in Mathematics and Physics from the University of Calicut is a record of bonafide work carried out by the students FATHIMA BUSTHANA C (EMAVSDMO20), FATHIMA RIDHA K P (EMAVSDM021), MAEEDA C P (EMAVSDM022), SHIFANA SHERIN K (EMAVSDM023), MOHAMMED FASEEH M (EMAVSDM010) under my supervision . No part of this project has been submitted for the award of any degree before.

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DR. RAMSIYA Assistant Professor & Head
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Introduction to Mathematical Modelling

A project report submitted to the UNIVERSITY OF CALICUT in partial fulfilment
of the requirement for the award of degree of

Bachelor of Science in Mathematics and Physics

Submitted by

AFNEENA (EMAVSDM001)

FATHIMA FIDHA K (EMAVSDM003)

HENNA KP (EMAVSDM005)

NAJUVA (EMAVSDM008)

FATHIMA MAHA PM (EMAVSDM016)



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This is to certify that the project work entitled '*Introduction to Mathematical Modelling*' submitted AFNEENA (EMAVSDM001), FATHIMA FIDHA K (EMAVSDM003), HENNA KP (EMAVSDM005), NAJUVA MK (EMAVSDM008), FATHIMA MAHA PM (EMAVSDM016), Department of Mathematics and Physics, EMEA College of Arts and Science, Kondotty, In partial fulfilment of the requirement for the award degree of Bachelor of Science in Mathematics and Physics is carried out by them under my supervision and guidance at EMEA College of Arts and Science, Kondotty during the academic year 2023 - 2024


Kondotty

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Dr. Ramsiya M
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Asst. Professor of Mathematics

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Development of a Portable Gas Sensor System Based on Arduino Nano for LPG Leakage Detection

A Project Report submitted to the UNIVERSITY OF CALICUT in partial fulfilment of the requirement for the award of degree of

Bachelor of Science in Mathematics and Physics

Submitted by

ANANDHU C (EMAVSDM018)

SAHIN ADIL K (EMAVSDM014)

ZAINU ZAMAN (EMAVSDM015)

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This is to certify that the project work entitled '*Development of a Portable Gas Sensor System Based on Arduino Nano for LPG Leakage Detection*' Submitted by **ANANDHU C (EMAVSDM018), SAHIN ADIL K (EMAVSDM014), ZAINU ZAMAN (EMAVSDM015), MUHASINA P K (EMAVSDM007), MUHAMMED RAMEES K P (EMAVSDM024), MUHAMMED SHABIK PULIKKALAKATH (EMAVSDM013),** Department of Mathematics and Physics, EMEA College of Arts & Science, Kondotty, in partial fulfilment of the requirement for the award of degree of Bachelor of Science in Mathematics and Physics is carried out by them under my supervision and guidance at EMEA College of Arts & Science, Kondotty during the academic year 2023-2024.

Kondotty

30/03/2024

Dr. Ramsiya M

(HOD)

External Examiner

Dr. Shincy A

Dr. Abdul Rasheed Paloly

(Project Supervisor)

THEORETICAL STUDY OF RADIONUCLIDE MEASUREMENTS IN ENVIRONMENTAL SAMPLES USING HPGE DETECTOR

A Project Report submitted to the **UNIVERSITY OF CALICUT** in partial fulfilment Of
therequirement for the award of degree of

BACHELOR OF SCIENCE IN MATHEMATICS AND PHYSICS

Submitted by

**BAHIYYA BATHOOL K (EMAVSDM002)
FATHIMA SHAHANA P (EMAVSDM004)
IRFANA SHERIN K (EMAVSDM006)
MOHAMED ASHIF MUKRI(EMAVSDM009)
FATHIMA RIYA MUKKANNAN (EMAVSDM017)
ANSABA KK(EMAVSDM019)**



Under the guidance of

Dr. RAMSIYA M

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CERTIFICATE

This is to certify that the work entitled "THEORETICAL STUDY OF RADIONUCLIDE MEASUREMENT USING HPGE DETECTOR "Submitted by BAHIYYA BATHOOL K (EMAVSDM002), FATHIMA SHAHANA P (EMAVSDM004), IRFANA SHERIN K (EMAVSDM006), MOHAMED ASHIF MUKRI(EMAVSDM009), FATHIMA RIYA MUKKANNAN (EMAVSDM017), ANSABA KK(EMAVSDM019) EMEA College of Arts & science, Kondotty, in partial fulfillment of the Calicut in Physics is carried out by them under my supervision and guidance at EMEA College, Kondotty during the academic year 2019-2022

Dr. RAMSIYA

HEAD OF DEPARTMENT

DEPARTMENT OF Mathematics and Physics

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EMEA COLLEGE OF ARTS AND SCIENCE

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CERTIFICATE

Certified bonfire project work entitled "THEORETICAL STUDY OF RADIONUCLIDE MEASUREMENT IN ENVIRONMENTAL SAMPLES USING HPGE DETECTOR" submitted to Calicut University in partial fulfillment of the requirement for the award of Bachelor of Science in Mathematics and Physics under the guidance and supervision of Dr. Ramsiya, during the academic Year 2021 – 2024

Dr. RAMSIYA

HEAD OF DEPARTMENT

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EXTERNAL EXAMIER :-

1. *Dr. Shiny A Shiny*
22/3/24
- 2.