

SREE NARAYANA COLLEGE FOR WOMEN

KOLLAM, KERALA- 691 001



1.3.3. Number of students undertaking project work/field work / internships



Unveiling Shadows: Exploring Mental Illness and Challenging Stigmas in *Good Will Hunting*

Dissertation submitted to the University of Kerala in partial fulfilment

of the requirements for the award of the Degree of

Master of Arts

In

English Language and Literature

Submitted by

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Candidate Code : 53022129001

Exam Code : 53022401

Course Code: 530

Subject Code : EL 545

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September 2024

This is to certify that the dissertation entitled Unveiling Shadows: Exploring Mental Illness and challenging stigmas in *Good Will Hunting* is a record of studies and research work carried by Ms. Aayisha A at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Mr. Vishnu Chandran and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Unveiling Shadows: Exploring Traumatic Journeys and Resilience in: The Girl on the Train

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Godzilla as Ecocatalyst: A Critical Analysis of Godzilla 2000:

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Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Beyond the Periphery : Exploring Subaltern Experiences in Select Tamil Movies *Karnan* and *Asuran*

Dissertation submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of

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The Zombie Apocalypse: The Environmental Warning Behind Zombie Narratives

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Portrayal of Bold Women in Malayalam Cinemas and the Hidden Misogyny

Dissertation submitted to the University of Kerala in partial fulfillment

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This is to certify that the dissertation entitled Portrayal of Bold Women in Malayalam Cinemas and the Hidden Misogyny is a record of studies and research work carried by Ms. Amaya Chandran K at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Miss. Aparna S Anil and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Beyond Physical Injury: Deconstructing Trauma and Delusional Pain in *The Evil Dead* and *Evil Dead Rise*

Dissertation submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of

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EXPLORING THE MOTIVES OF CRIME AND CAUSE OF STRAIN IN ALEX MICHAELIDES' NOVELS THE SILENT PATIENT AND THE MAIDENS

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the award of the degree of

Master of Arts

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Course Code : 530 Exam Code : 53022401 Subject Code : EL 545



University of Kerala Thiruvananthapuram

Navigating the Unseen: Sensory Deprivation, Trauma Survival

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In Bird Box and A Quiet Place

Dissertation submitted to the University of Kerala in partial fulfillment of the

requirements for the Degree of

Master of Arts

In

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This is to certify that the dissertation entitled Navigating the unscen: Sensory Deprivation Trauma Survival in *Bird Box and A Quiet Place* is a record of studies and research work carried by Ms. Archa S Madhu at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Mr. Vishnu Chandran and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Portrayal Of Zoolingualism In Movies: A Study Based on Aquaman, Aquaman and The Lost Kingdom and Karthikeya 2

Dissertation submitted to the University of Kerala in Partial fulfilment of the requirement of the Award of the Degree of

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This is to certify that the dissertation entitled Exploring the Complexities of Migration Through Graphic Narratives:An Analysis of Welcome to the New World and The Arrival is a record of studies and research work carried by Ms. Bhagya Lekshmi S, at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Mrs. Julie P S and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Exploring the Complexities of Migration Through Graphic Narratives: An Analysis of *Welcome to the New World* and *The*

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Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Coping Mechanism: Surviving the Dark in Emma Donoghue's *Room*

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Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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This is to certify that the dissertation entitled **Coping Mechanism: Surviving the Dark in Emma Donoghue's** *Room* is a record of studies and research work carried by Ms. Divya A S, at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of **Dr. Sruthi Nandan** and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Unravelling the Horrors and Traumas of Acid Attack through the

Movies Vazhakku Enn 18/9, Uyare and Chhapaak

Dissertation

Submitted to the University of Kerala

in partial fulfilment of the requirements for the Degree of Master of

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Redefining Motherhood: Understanding PPD in Dear Scarlet

The Story of my postpartum depression

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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This is to certify that the dissertation entitled Redefining Motherhood: Understanding PPD in Dear Scarlet The Story of my postpartum depression is a record of studies and research work carried by Ms. Karthika V, at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Dr. Arun Ravi and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.



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Shadows of Womanhood: Memory as Trauma in Kazuo Ishiguro's *A Pale View of Hills*

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Unearthing the darkness: Folk horror in Midsommar and

Bramayugam

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Mindscapes of Trauma: A Psychoanalytic Journey through

Ratsasan and Por Thozhil

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Unpacking the Intersectional Experience: A Critical Race Theory Exploration of *The Hate U Give*

Dissertation submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of

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This is to certify that the dissertation entitled Unpacking the Intersectional Experience: A Critical Race Theory Exploration of *The Hate U Give* is a record of studies and research work carried by Ms. Lekshmy P B at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Miss. Nayana konath and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Gendered Complicity: A Study of Gender and The Banality of Evil in The Zone of Interest

Dissertation submitted to the University of Kerala in partial fulfillment of the

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This is to certify that the dissertation entitled Gendered Complicity: A Study of Gender and The Banality of Evil in *The Zone of Interest* is a record of studies and research work carried by Ms. Manjima B at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Dr. Sruthi Nandan and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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The Unseen Psyche: A Psychoanalytic Exploration of Serial Killers in South Indian Cinema through *Memories* and *Garudan*

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Dissertation submitted to the University of Kerala in partial fulfillment of the

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Exploring Toxic Masculinity and Male Dominance: An Analysis on Animal and Arjun Reddy

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements of the award of the Degree of

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in

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This is to certify that the dissertation entitled "Exploring Toxic Masculinity and Male Dominance: An Analysis on *Animal* and *Arjun Reddy*" is a record of studies and research work carried by **Ms. Salabha Sajcev**, at the P.G. Department of English, Sree Narayana College for Women, Kollam, under the guidance of Dr. Arun Ravi and submitted to the University of Kerala as partial fulfilment of the requirements for the Degree of Master of Arts in English Language and Literature.

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This is to certify that the dissertation entitled Reimagining Feminism and Cultural Identity in the Works of Zadie Smith and Monica Ali a record of studies and research work carried by Ms. Shahana Shamsudeen, at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Ms. Bhagyalekshmi R and submitted to the University of Kerala as partial fulfilment of the requirements for the Degree of Masters of Arts in English Language and Literature.

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Dreamscapes and Time Loops: Analyzing Reality and Lucid

Dreaming in Pendulum and Inception

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Reclaiming the Crown: Baldness, Beauty and the Journey to Self- Acceptance

Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the Degree of

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Rhythmic Renegades : K - Pop Embracing Contradictions, Subverting Stereotypes

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Dissertation submitted to the University of Kerala in partial fulfillment of the

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In

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Unveiling the Shades of Brainstorming The Art of Creation & Destruction Evaluated by Psycho-Behavioral Comparison of Characters from Matthew Brown's *The Man Who Knew Infinity* and Christopher Nolan's *Oppenheimer*

Dissertation submitted to the University of Kerala in partial fulfillment of the requirements for the Degree of

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Submitted by

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This is to certify that the dissertation entitled Unveiling the Shades of Brainstorming : The Art of Creation & Destruction Evaluated by Psycho-Behavioral Comparison of Characters from Matthew Brown's *The Man Who Knew Infinity* and Christopher Nolan's *Oppenheimer* is a record of studies and research work carried by Ms. Vyshnavi S Gopan, at the Post Graduation Department of English, Sree Narayana College for Women, Kollam, under the guidance of Dr. Priyanka M C and submitted to the University of Kerala as partial fulfillment of the requirements for the Degree of Master of Arts in English Language and Literature.

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Dr. Priyanka M C Assistant Professor Sree Narayana College for Women Kollam



This is to certify that this dissertation entitled "HOUSEHOLD WEALTH INEQUALITY: A CASE STUDY CONDUCTED IN KOLLAM DISTRICT "Is an authentic record work carried out by ASIYA N of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of Work has not been presented for any degree.

Counter signed by

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This is to certify that this dissertation entitled "CUSTOMER PERCEPTION TOWARDS ONLINE SHOPPING: A STUDY IN PARAVUR MUNICIPALITY IN KOLLAM" Is an authentic record work carried out by SARABI.N of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

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This is to certify that this dissertation entitled "A STUDY ON THE INFLUENCE OF DIGITAL MARKETING ON CONSUMER PURCHASING BEHAVIOUR IN KOTTARAKKARA MUNICIPALITY" Is an authentic record work carried out by ASWATHY.V of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

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This is to certify that this dissertation entitled "NUDGING IN HEALTHY FOOD CHOICE: A CASE STUDY WITH SPECIAL REFERENCE TO KOLLAM CORPORATION". Is an authentic record of work carried out by ASWATHY. B of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

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Dr. SINDHU PRATAP

Head of the Department

(HOD) Department of

Economics

This is to certify that this dissertation entitled "WOMEN CONSUMER'S BEHAVIOUR TOWARDS PURCHASING LUXURY FASHION APPAREL BRANDS IN KOLLAM DISTRICT" Is an authentic record work carried out by ANUANAND of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and super vision and this part of work has not been presented for any degree.

Counter signed by Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

PARVATHY AV

Assistant professor Department of Economics

This is to certify that this dissertation entitled "ONLINE CONSUMPTION PATTERN AMONG COLLEGE STUDENTS : A STUDY CONDUCTED IN KOLLAM DISTRICT" is an authentic record of work carried out by Arya Dev of the DEPARTMENT OF ECONOMIS, SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by,

DR.SINDHU PRATAP

Head of the department (HOD)

Department of Economics

SREEMANKA. J

Assistant professor

Department of Economics

This is to certify that the project titled "CONSUMERS BEHAVIORS TOWORDS ONLINE ADVERTISEMENT: A CASE STUDY OF MYNAGAPPALLY PANCHAYAT IN KOLLAM DISTRICT" is an authentic record of the work carried by BODHI PRIYA (55122129012) of fourth Semester MA - behavioral Economics and data science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfillment of the requirements for the award of the degree of Master of Arts in Behavioral Economics and Data Science of University Kerala and that us no part of this work has been Submitted for any Other degree.

Kollam

Ms. VARSHA GEETH Assistant Professor Department of Economics Sree Narayana College for women, Kollam

This is to certify that this dissertation entitled "A STUDY ON JOB SASTISFACTION AMONG THE EMPLOYEE IN THE RELIANCE GROUP OF TEXTILE INDUSTRIES PRIVATE LIMITED IN KOLLAM TOWN". Is an authentic record of work carried out by ARCHA S of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

KOLLAM

ANILA

Assistant professor Department of Economic

Counter signed by: Dr. SINDHU PRATAP Head of the Department (HOD) Department of Economics

This is to certify that the project titled "CONSUMPTION PATTERN OF RURAL AND URBAN HOUSEHOLDS IN KERALA : A STUDY OF KOLLAM DISTRICT" is an authentic record of the work carried by Devika.R.G (55122129014) of fourth semester MA Behavioural Economics and Data science, Department of Economics Sree Narayana College for Women under my supervision and guidance in partial fulfillment of the requirements for the award of the degree of Master of Arts in Behavioural Economics and Data science of University of Kerala and that as no part of this work has been submitted for any other degree.

KOLLAM

PARVATHY A.V

Assistant Professor Department of Economics Sree Narayana College for Women Kollam

This is to certify that the project titled "A STUDY ON CONSUMER BUYING BEHAVIOUR TOWARDS INSTANT FOOD PRODUCTS IN KOLLAM by DISTRICT" work carried the of is record an authentic Meera.M.L of Fourth Semester MA-Behavioural Economics and Data Science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfillment of the requirements for the award of the degree of Master of Arts in Behavioural Economics and Data Science of University of Kerala and that us no part of this work has been Submitted for any Other degree.

Counter Signed by Dr. SINDHU PRATAP Head of the Department (HOD) Department of Economics

Assistant Professor Department of Economics Sree Narayana College for women, Kollam

ANILA P.S

This is to certify that the project titled "THE IMPACT OF SOCIAL MEDIA ON CONSUMER BEHAVIOR: A STUDY CONDUCTED IN KOLLAM DISTRICT" is an authentic record of the work carried by Anju A of fourth Semester MA -behavioural Economics and data science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfillment of the requirements for the award of the degree of Master of Arts in Behavioral Economics and Data Science of University of Kerala and that us no part of this work has been Submitted for any Other degree.

Counter Signed by Dr. SINDHU PRATAP Head of the Department (HOD) Department of Economics

Dr. PRABHAVATHY Assistant Professor Department of Economics Sree Narayana College for women, Kollam

This is to certify that this dissertation entitled "AN ANALYSIS OF SAVING AND INVESTMENT BEHAVIOUR OF URBAN HOUSEHOLDS IN KOLLAM DISTRICT" Is an authentic record work carried out by NITHYA BAIJU M of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by Prof Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

Dr. APARNA DAS Assistant professor Department of Economics

This is to certify that this dissertation entitled "A STUDY ON INVESTMENT BEHAVIOUR AMONG WORKING WOMEN WITH SPECIAL REFERENCE TO KOLLAM CORPORATION" is an authentic record of work carried out by AKHILA SASIDHARAN of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

KOLLAM

Dr. SINDHU PRATAP Head of the Department Department of Economics

Counter signed by: Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

This is to certify that the project titled "A STUDY ON USAGE OF ONLINE PAYMENT APPS BY CUSTOMERS: A CASE STUDY CONDUCTED AT KOLLLAM DISTRICT" is an authentic record of the work carried by Punnya R.S of Fourth Semester MA-Behavioural Economics and Data Science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfillment of the requirements for the award of the degree of Master of Arts in Behavioural Economics and Data Science of University of Kerala and that us no part Of this work has been Submitted for any Other degree.

Counter Signed by Dr. SINDHU PRATAP Head of the Department (HOD) Department of Economics

Dr. APARNA DAS

Assistant Professor Department of Economics Sree Narayana College for women, Kollam

This is to certify that this dissertation entitled "INVESTMENT BEHAVIOUR AND AWARENESS TOWARDS SUKANYA SAMRIDDHI YOJANA:-A CASE STUDY OF KOLLAM DISTRICT" Is an authentic record work carried out by RENCY SUSAN REJI of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by Prof.Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

Dr APARNA DAS

Assistant professor Department of Economics

This is to certify that this dissertation entitled "A BEHAVIOUR ANALYSIS ON THE INFLUENCE OF PRICING STRATEGIES ON CONSUMER CHOICES: A CASE STUDY

CONDUCTED IN KAZHAKUTTAM" Is an authentic record work carried out by ABHIRAMI A S of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

SREEMANKA J

Assistant professor Department of Economics

This is to certify that the project titled "THE IMPACT OF AI ON FUTURE WORKFORCE AN UNCERTAINTY AMONG YOUNG GENERATION" is an authentic record of the work carried by GANGA GIREESH of fourth Semester MA Behavioural Economics and Data Science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfilment of the requirements for the award of the degree of Master of Arts in Behavioural Economics and Data Science of University of Kerala and that us no part of this work has been Submitted for any Other degree.

Counter signed by, DR. SINDHU PRATAP Head of The Department (HOD) Department of Economics

Dr. APARNA PADMA Assistant Professor Department of Economics Sree Narayana College for Women, Kollam

This is to certify that the project titled "A STUDY ON CUSTOMER PREFERENCE TOWARDS LIC OVER OTHER PRIVATE SECTOR INSURANCE COMPANIES IN KARUNAGAPPALLI TALUK" is an authentic record of the work carried by SOJA.S of fourth Semester MA - Behavioural Economics And Data Science, Department of Economics, Sree Narayana College For Women under my Supervision and guidance in Partial fulfilment of the requirements for the award of the degree of Master of Arts in Behavioural Economics and Data Science of University of Kerala and that us no part of this work has been Submitted for any Other degree.

Counter Signed by, Dr. SINDHU PRATHAP, Head of the Department (HOD) Department of Economics Assistant Professor PRIYANKA Assistant Professor Department of Economics Sree Narayana College for women, Kollam

This is to certify that this dissertation entitled"A STUDY ON PERCEPTION OF CUSTOMERS TOWARDS ELECTRONIC BANKING IN KOLLAM DISTRICT " Is an authentic record work carried out by FATHIMA.S of the DEPARTMENT OF ECONOMICS. SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by Dr. Sindhu Pratap Head of the Department (HOD) Department of Economics

Ms.PARVATHY A.V Assistant professor Department of Economics

This is to certify that this dissertation entitled "THE IMPACT OF NEUROMARKETING ON CONSUMER BEHAVIOUR: A CASE STUDY CONDUCTED IN KOLLAM CORPORATION" is an authentic record of work carried out by Lavanya.R of the DEPARTMENT OF ECONOMIS, SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

Counter signed by,

DR.SINDHU PRATAP

Head of the department (HOD)

SREEMANKA. J

Assistant professor

Department of Economics

Department of Economics
CERTIFICATE

This is to certify that this dissertation entitled "POST PARTUM DEPRESSION IN MOTHERS: A STUDY CONDUCTED IN KOLLAM DISTRICT". Is an authentic record of work carried out by BISHARA B. of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

KOLLAM

Dr. PRABHAVATHY Assistant professor Department of Economic

Counter signed by: Dr. SINDHU PRATAP Head of the Department (HOD) Department of Economics

CERTIFICATE

This is to certify that this dissertation entitled "A STUDY ON THE IMPACT OF SOCIAL MEDIA USAGE ON ACADEMIC PERFORMANCE OF POST GRADUATE STUDENTS IN CHIRAYINKEEZH TALUK; TRIVANDRUM DISTRICT" Is an authentic record of work carried out by Mrs. GAYATHRI G.P of the DEPARTMENT OF ECONOMICS, SREE NARAYANA COLLEGE FOR WOMEN KOLLAM under my guidance and supervision and this part of work has not been presented for any degree.

KOLLAM

Ms. VARSHA GEETH Assistant professor Department of Economics

Counter signed by Dr. Sindhu Pratap Head of Department (HOD) Department of Economics

STRUCTURAL AND OPTICAL CHARACTERIZATION OF MFe_2O_4 (M = Mn, Ni) SPINEL FERRITES

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PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award for the Degree of Master of Science in Physics under CBCSS to University of Kerala



Submitted by

DEVIKA GOPAN Register No: 63022129015

Under the Guidance of

Dr I. Hubert Joe

Head and Associate Professor,

Department of Nanoscience & Nanotechnology

University of Kerala

Kariavattom



DEPARTMENT OF PHYSICS SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM 2022-2024

CERTIFICATE

This is to certify that the this is a bonafide certificate of the project work entitled "Structural and Optical characterization of MFe₂O₄ (M = Mn, Ni) spinel ferrites" is an authentic record of the project work carried out by DEVIKA GOPAN (Candidate code: 63022129015) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College for Women, Kollam, under the guidance of Dr. I. Hubert Joe, Dept: of Nanoscience and Nanotechnology, University of Kerala, Kariavattom.

Ms. RESMI.S

Assistant Professor and Head

Department of Physics

SNCW, Kollam



Evaluated by

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DEPARTMENT OF NANOSCIENCE & NANO TECHNOLOGY UNIVERSITY OF KERALA KARIAVATTOM THIRUVANANTHAPURAM-695581



CERTIFICATE

This is to certify that the project report entitled "STRUCTURAL AND OPTICAL **CHARACTERISATION OF MFe₂O₄ (M= Mn, Ni) SPINEL FERRITES**" is submitted by DEVIKA GOPAN (Reg.No:63022129015) in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics at Sree Narayana College for Women, Kollam is the work carried out by her under my guidance. To the best of my knowledge, no part of this work has been submitted to any other University/Institute for the award of any Degree/Diploma.

Date:27/08/2024





Dr. I. Hubert Joe Head of the Department Dept: of Nanoscience and Nanotechnology, University of Kerala Kariavattom

Synthesis And Optical Studies Of

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Nanostructured ZnO

PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award for the Degree of Master of Science in Physics under CBCSS to University of Kerala



Submitted by

ANU A S

Register No: 63022129010

Under the Guidance of

Dr V BIJU

Head and Associate Professor,

Department of Physics

University of Kerala

Kariavattom



DEPARTMENT OF PHYSICS SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM 2022-2024

CERTIFICATE

This is to certify that this is a bonafide certificate of the project work entitled "Synthesis And **Optical Studies Of Nanostructured ZnO**" is an authentic record of the project work carried out by ANU A S (Candidate code: 63022129010) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College for Women, Kollam, under the guidance of Dr. V Biju, Dept: of Physics, University of Kerala, Kariavattom.

Ms. RESMI.S Assistant Professor and Head Department of Physics SNCW, Kollam

Evaluated by

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DEPARTMENT OF PHYSICS UNIVERSITY OF KERALA KARIAVATTOM THIRUVANANTHAPURAM-695581



CERTIFICATE

This is to certify that the project report titled "Synthesis And Optical Studies Of Nanostructured ZnO" is submitted by ANU A S (Reg.No:63022129010) in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics at Sree Narayana College for Women. Kollam is the work carried out by her under my guidance. To the best of my knowledge, the matter embodied in this report has not been submitted to any other University/Institute for the award of

Chithra S Research Scholar Dept. of physics University of Kerala Kariavattom

91912024

Dr. V BIJU

Department of Physics University of Kerala Kariavattom - 695 58

Head of the Department Dept. of Physics University of Kerala Kariavattom

Synthesis, Characterization, and Antimicrobial Evaluation of Iron Oxide Nanoparticles in Prokaryotic and Eukaryotic Organisms

Project submitted to University of Kerala in partial fulfilment of the requirement for the award

of degree of:

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

EXAM CODE: 63020403



UNIVERSITY OF KERALA 2024

CERTIFICATE

This is to certify that Ms. Anju S Ranjan, Candidate Code: 63022129009, M.Sc. (IV semester) Student, Post Graduate, Department of Physics, Sree Narayana College for Women (SNCW) Kollam, has effectively carried out project work entitled "SYNTHESIS, CHARACTERIZATION, AND ANTIMICROBIAL EVALUATION OF IRON OXIDE NANOPARTICLES IN PROKARYOTIC AND EUKARYOTIC ORGANISMS" at SNCW Kollam,

University of Kerala under the guidance of Dr. Smitha S

Head of the Department

Project Guide

Dr. Smitha S Assistant Professor Department of Physics SNCW, Kollam

EXAM INVIGILATOR

Ms. Resmi S Assistant Professor & HOD Department of Physics SNCW, Kollam

1.

2

A Study on the Synthesis and Optical Properties of Graphitic Carbon-coated ZnO Nanostructures

PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award for the Degree of Master of Science in Physics under CBCSS to University of Kerala



Submitted by

AVANI J LAL

Register No: 63022129012

Under the Guidance of

Dr V BIJU

Head and Associate Professor,

Department of Physics

University of Kerala

Kariavattom



DEPARTMENT OF PHYSICS

SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM

2022-2024

CERTIFICATE

This is to certify that this is a bonafide certificate of the project work entitled "A Study on the Synthesis and Optical Properties of Graphitic Carbon-coated ZnO Nanostructures" is an authentic record of the project work carried out by AVANI J LAL (Candidate code: 63022129012) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College for Women, Kollam, under the guidance of Dr. V Biju, Dept: of Physics, University of Kerala, Kariavattom.

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Evaluated by

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Ms. RESMI.S

Assistant Professor and Head Department of Physics SNCW, Kollam

DEPARTMENT OF PHYSICS UNIVERSITY OF KERALA KARIAVATTOM THIRUVANANTHAPURAM-695581



CERTIFICATE

This is to certify that the project report titled "A Study on the Synthesis and Optical Properties of Graphitic Carbon-coated ZnO Nanostructures" is submitted by AVANI J LAL (Reg.No:63022129012) in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics at Sree Narayana College for Women, Kollam is the work carried out by her under my guidance. To the best of my knowledge, the matter embodied in this report has not been submitted to any other University/Institute for the award of any Degree/Diploma.

1

Chithra S Research Scholar Dept. of Physics University of Kerala Kariavattom



al912024

Dr. V BIJU Department of Physics University of Kerala Dept. of Physics University of Kerala Kariavattom

ANTIOXIDANT PROPERTIES OF GREEN SYNTHESIZED IRON OXIDE NANOPARTICLES USING CNIDOSCOLUS ACONITIFOLIUS LEAF EXTRACT

Project submitted to the University of Kerala in partial fulfilment for the requirement of

the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

EXAM CODE: 63020403



UNIVERSITY OF KERALA

2022-2024

CERTIFICATE

This is to certify that Miss **Bismi Saji**, Candidate Code: 63022129013, M.Sc.(IV semester)Student, Post Graduate, Department of Physics, Sree Narayana College for Women (SNCW) Kollam, has effectively carried out project work entitled "ANTIOXIDANT **PROPERTIES OF GREEN SYNTHESISED IRON OXIDE NANOPARTICLES USING CNIDOSCOLUS ACONITIFOLIUS LEAF EXTRACT**" at SNCW Kollam, University of Kerala under the guidance of Ms.Dr.Smitha.S.

Project Guide:

Ms. Dr.Smitha.S

Assistant Professor

Department of Physics

SNCW, Kollam

Head of the department

Ms. Resmi.S

Assistant Professor & HOD

Department of Physics

SNCW, Kollam

EXAM INVIGILATOR

1.

2



HISTORICAL RAINFALL PATTERNS IN KERALA: AN ANALYSIS OF STATEWIDE TRENDS AND NORTHERN DRISTRICTS

Project submitted to University of Kerala in partial fulfilment of the requirement for the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

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EXAM CODE: 63020403

STATE ASITY OF ACRACK

UNIVERSITY OF KERALA

2022-2024

By

SOORYA G S

Candidate Code:63022129019

MSc PHYSICS PROJECT REPORT

NAME:SOORYAGSCLASS:M.SC. IV SEMESTERCANDIDATE CODE :63022129019DISSERTATION NO:PH201

Certified that this a record of the project work of **SOORYA G S** during the final year M.Sc. course in the Department of Physics.

* Pos ent of melley .W.

Head of the department

Ms. RESMI S

Assistant Professor & Head

Department of Physics

SNCW, Kollam

Signature of Examiners:

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भारत सरकार प्राची विज्ञानं पंत्रालय भारत पौसम विज्ञानं विभाग मौसम केंद्र विकास भवन (ढाक) तिरूवनंतपुरम



Government of India Ministry of Earth Sciences India Meteorological Department Meteorological Centre Vikas bhavan (PO) Thiruvananthapuram

No.AWS-0300/(100 AWS)/CERT-92

Dated 09-09-2024

CERTIFICATE

Certified that the project report entitled "Historical Rainfall patterns in Kerala: An analysis of state wide trends and Northern districts" is a bonafide work of Kumari Soorya G S (Reg. No 63022129019, Department of Physics, S N College for Women, Kollam) carried out under my supervision at the Indian Meteorological Department, Thiruvananthapuram.



3

(P.S.Biju)

Scientist-F Director (AWS & Radar Projects) (Recipient of National awards 2022,2019,2017,2011)

> P.S. BLIU Scientist-F Director (Govt. of India) India Meteorological Department Ministry of Earth Sciences

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Project submitted to University of kerala in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE : PH201

EXAM CODE : 63020403



UNIVERSITY OF KERALA

2024

By

ANJU J S

Candidate code : 63022129008

M.Sc. Physics (IV Semester) Project Report

Name CLASS

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I

Anju J S M.Sc. IV semester

Candidate code

63022129008

Certified that this a record of the project work of Anju J S during the final year M.Sc. course in the Department of Physics.

> Head of the department Ms. Resmi S Assistant Professor & Head Department of Physics SNCW, Kollam

Signature of Examiners:

I.

2

SREE NARAYANA COLLEGE FOR WOMEN KOLLAM

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that this project report entitled 'Photodegradation of SnO2/GCN nanocomposite' is a bonafide record of the work done by Ms. Anju J S for the partial fulfillment of the requirement for the award of the Degree of Master of Science in Physics under the University of Kerala.

Head of the department Ms. Resmi S Assistant Professor & Head Department of Physics SNCW, Kollam



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DEPARTMENT OF PHYSICS

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CERTIFICATE

This is to certify that the project work entitled "**PHOTODEGRADATION OF SnO**₂/**GCN NANOCOMPOSITE**" is a bonafide record of the original work done by ANJU J S (Reg. No. 63022129008), under my guidance at the Department of Physics, Bishop Moore College Mavelikara, in partial fulfillment of the requirement for the degree of Master of Science in Physics, University of Kerala and no part of this project has been presented before for any other degree.

> **Dr. Arun Aravind** Assistant Professor Department of Physics Bishop Moore College Mavelikara

RAINFALL PATTERNS IN FIVE DISTRICTS OF KERALA: A COMPARITIVE STUDY

Project submitted to University of Kerala in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

EXAM CODE: 63020403



UNIVERSITY OF KERALA

2024

By

LEKSHMI B

Candidate code: 63022129018

M.Sc. Physics (IV Semester) Project Report

Name	;	Lekshmi B
CLASS	:	M.Sc. IV semester
Candidate code	:	63022129018

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Certified that this a record of the project work of Lekshmi B during the final year M.Sc. course in the Department of Physics.

SICS mellox , WONS

Head of the department

Ms. Resmi S

Assistant Professor & Head

Department of Physics

SNCW, Kollam

Signature of Examiners:

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SREE NARAYANA COLLEGE FOR WOMEN KOLLAM

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DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that this project report entitled 'Rainfall Patterns in Five Districts of Kerala: A Comparative Study' is a bonafide record of the work done by Ms. Lekshmi B for the partial fulfillment of the requirement for the award of the Degree of Master of Science in Physics under the University of Kerala.



Head of the department Ms. Resmi S Assistant Professor & Head Department of Physics SNCW, Kollam भारत सरकार प्रथ्वी विज्ञानं मंत्रालय भारत मौसम विज्ञानं विभाग मौसम केंद्र विकास भवन (डाक) तिरुवनंतपुरम



Government of India Ministry of Earth Sciences India Meteorological Department Meteorological Centre Vikas bhavan (PO) Thiruvananthapuram

No.AWS-0300/ (100 AWS)/CERT-93

Dated 09-09-2024

CERTIFICATE

Certified that the project report entitled "Rainfall patterns in five districts of Kerala: A comparative study "is a bonafide work of Kumari Lekshmi B (Reg.No 63022129018, Department of Physics, S N College for Women, Kollam) carried out under my supervision at India Meteorological Department, Thiruvananthapuram.

(P.S. Biju)

Scientist-F Director (AWS & Radar Projects) (Recipient of National awards 2022,2019,2017,2011)

> P.S. BIJU Scientist-F Director (Govt. of India) India Meteorological Department Ministry of Earth Sciences



Investigation of Electrochemical Performance of Yttrium-Substituted MnFe₂O₄

Dissertation submitted to the University of Kerala in partial fulfilment of the requirement for the award of degree of

Master of Science in Physics

by

ARKA T S

Reg. No : 63022129011



Department of physics Sree Narayana College for Women, Kollam

Under the supervision of

Dr. Lija K Joy

Assistant Professor

Bishop Moore College, Mavelikara

UNIVERSITY OF KERALA

2022-2024

SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that the dissertation entitled "Investigation of Electrochemical Performance of Yttrium-Substituted MnFe₂O₄" is an original and independent work done by Arka T S (Reg. No: 63022129011) under the guidance of Dr. Lija K Joy, Assistant professor, Department of Physics, Bishop Moore College, Mavelikara for the partial fulfilment of the requirement for the degree of Master of Science in Physics, University of Kerala.

Evaluated by

1)

Ms. RESMI S Assistant Professor and Head of the Department of Physics SNCW, Kollam

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A STUDY ON THE SIZE DEPENDENT ANTIFUNGAL ACTIVITY OF VANADIUM DOPED NICKEL OXIDE NANOPARTICLES

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PROJECT REPORT

A Project submitted to university of Kerala in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

EXAM CODE: 63020403



UNIVERSITY OF KERALA 2022-2024

Submitted by

DEVI ARCHANA

Register No: 63022129014

Under the Guidance of

Sona G Krishnan

Assistant Professor

Physics Department of Physics

SNCW, Kollam

CERTIFICATE

This is to certify that the this is a bonafide certificate of the project work entitled "A Study on the Size Dependent Antifungal Activity of Vanadium doped Nickel oxide Nanoparticles" is an authentic record of the project work carried out by DEVI ARCHANA (Candidate code: 63022129014) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College foe Women, Kollam.

Ms.Resmi.S

Assistant professor and Head Department of Physics SNCW,Kollam

Project Guide Sona G Krishnan

Assistant Professor



Evaluated by

1)

2)

IMPACT OF YTTRIUM DOPING ON STRUCTURAL AND OPTICAL PROPERTIES OF ZnO NANOSTRUCTURES

Project report submitted to university of Kerala in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE: PH201

EXAM CODE: 63020403



UNIVERSITY OF KERALA 2022-24

Submitted by

ANJALI R

Register No: 63022129006

Under the Guidance of

Mrs.Resmi. S

Head and Assistant Professor,

Department of physics

SNCW, Kollam

CERTIFICATE

This is to certify that the this is a bonafide certificate of the project work entitled "Impact of Yttrium doping on structural and optical properties of ZnO nanostructures" is an authentic record of the project work carried out by ANJALI R (Candidate code: 63022129006) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Science in Physics under the University of Kerala at Sree Narayana College for Women, Kollam.

Mrs.RESMI S Assistant Professor and Head Department of Physics SNCW, Kollam

Evaluated by

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2)

Comparative Study on Average Rainfall over

Five districts in Kerala

Project submitted to University of India in partial fulfilment of the requirement for the award of

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degree of

MASTER OF SCIENCE IN PHYSICS

SUBJECT CODE : PH201

EXAM CODE : 63020403



UNIVERSITY OF KERALA

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Dissertation submitted to the University of Kerala in partial fulfilment of the requirements for the award of the degree of master of physics.

BY

AARSHA S S

Candidate code: 63022129001

Exam code: 63020403

Subject code: PH201



DEPARTMENT OF PHYSICS

SREE NARAYANA COLLEGE FOR WOMEN

KOLLAM

2022-2024

भारत सरकार प्रथ्वी विज्ञानं मंत्रालय भारत मौसम विज्ञानं विभाग मौसम केंद्र विकास भवन (डाक) तिरुवनंतपुरम

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Government of India Ministry of Earth Sciences India Meteorological Department Meteorological Centre Vikas bhavan (PO) Thiruvananthapuram

No.AWS-0300/(100 AWS)/CERT-94

Dated 09-09-2024

CERTIFICATE

Certified that the project report entitled "Comparative study on average Rainfall over five districts in Kerala" is a bonafide work of Mrs. Aarsha S S (Reg.No 63022129001, Department of Physics, S N College for Women, Kollam) carried out under my supervision at India Meteorological Department, Thiruvananthapuram.

(P.S.Biju)

Scientist-F Director (AWS & Radar Projects) (Recipient of National awards 2022,2019,2017,2011)



P.S. BIJU Scientist-F Director (Govt. of India) India Meteorological Department Ministry of Earth Sciences

SREE NARAYANA COLLEGE FOR WOMEN KOLLAM

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that this project report entitled 'comparative study on average rainfall over five districts in kerala' is a bonafide record of the work done by Ms. Aarsha S S for the partial fulfillment of the requirement for the award of the Degree of Master of Science in Physics under the University of Kerala.



Head of the department

Ms. Resmi S

Assistant Professor & Head

Department of Physics

SNCW, Kollam
STRUCTURAL AND OPTICAL CHARACTERIZATION OF Cr2O3 AND COPPER SUBSTITUTED Cr2O3

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PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award for the Degree of Master of Science in Physics under CBCSS to University of Kerala



Submitted by

ANJANA.A.M Register No: 63022129007

Under the Guidance of

Dr I. Hubert Joe

Head and Associate Professor,

Department of Nanoscience and Nanotechnology

University of Kerala

Kariavattom



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DEPARTMENT OF PHYSICS SREE NARAYANA COLLEGE FOR WOMEN KOLLAM 2022-2024

CERTIFICATE

This is to certify that this is a bonafide certificate of the project work entitled "Structural and optical characterization of Cr₂O₃ and copper substituted Cr₂O₃ ", is an authentic record of the project work carried out by ANJANA.A.M (Candidate code:63022129007) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master Degree in Physics under the University of Kerala at Sree Narayana College for Women ,Kollam.

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Evaluated by	Ms. Resmi.S
1)	Assistant Professor and Head
	Of Department of Physics
2)	SNCW, Kollam
	T.W. Kollam

COMPARISON OF STRUCTURAL AND OPTICAL PROPERTIES OF MgO SYNTHESISED VIA CO-PRECIPITATION AND SOLUTION COMBUSTION METHODS AND THEIR ANTIBACTERIAL EFFICIENCIES.

Dissertation submitted to the university of Kerala in partial fulfilment of the requirements for the award of the degree of

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MASTER OF SCIENCE IN PHYSICS

BY

ABHINA ASHISH

Candidate code :63022129002 Exam code :63020403 Subject code :PH201



DEPARTMENT OF PHYSICS SREE NARAYANA COLLEGE FOR WOMEN

KOLLAM

2022-2024

CERTIFICATE

This is to certify that Miss ABHINA.ASHISH, Candidate Code: 63022129002, M.Sc (IVth semester)Student, Post Graduate ,Department of Physics, Sree Narayana College for Women (SNCW) Kollam, has effectively carried out project work entitled "COMPARISON OF STRUCTURAL AND OPTICAL PROPERTIES OF MgO SYNTHESISED VIA CO-PRECIPITATION AND SOLUTION COMBUSTION METHODS AND THEIR ANTIBACTERIAL EFFICIENCIES" at SNCW Kollam, University of Kerala under the guidance of Ms. PRIYADARSINI.G.

Project Guide:

G. Privadarsini. G 12 9 2024

Assistant Professor

Department of Physics

SNCW, Kollam

EXAM INVIGILATOR

1.

2.

Head of the department

Ms. Resmi. S

Assistant Professor & Head Department of Physics SNCW, Kollam



UNRAVELING THE CHARACTERISTICS OF GADOLINUM-DOPED CERIA OXIDE USING XRD, UV SPECTROSCOPY AND RAMAN SPECTROSCOPY : A CITATION BASED INVESTIGATION IN THE CONTEXT OF SOFC ELECTROLYTES

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PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award for the Degree of Master of Science in Physics under CBCSS to University of Kerala



Submitted by

SREEPARVATHY G

Register No: 63021129019

Under the Guidance of

Dr Sibi K.S Assistant Professor Department of Physics University of Kerala Kariavattom



DEPARTMENT OF PHYSICS SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM 2021-2023

CERTIFICATE

This is to certify that the this is a bonafide certificate of the project work entitled "Unraveling the Characteristics of Gadolinum-doped ceria oxide using XRD, UV Spectroscopy and Raman Spectroscopy: A Citation Based Investigation in the Context Of SOFC Electrolytes" is an authentic record of the project work carried out by SREEPARVATHY G (Candidate code: 63021129019) during the year 2021-2023 in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College for Women, Kollam.

SNCW, Kellam

Ms. RESMI.S

Assistant Professor and Head Department of Physics SNCW, Kollam

Evaluated by

1)

2)

A Study on Atmospheric Aerosol Chemical Composition using Mass-spectrometry Technique

Project submitted to University of Kerala in partial fulfillment of the requirement for the award of degree of

Master of Science in Physics

Subject Code: PH201

Exam Code: 63020401



University of Kerala

2024

By

K R RESHMIRAJ

Candidate code: 63022129017

Department of Physics

Sree Narayana College for Women, Kollam

2022-2024

SREE NARAYANA COLLEGE FOR WOMEN KOLLAM

DEPARTMENT OF PHYSICS



CERTIFICATE

This is to certify that this project report entitled 'A Study on Atmospheric Aerosol Chemical Composition using Mass-spectrometry Technique' is a bonafide record of the work done by Ms. K R Reshmiraj for the partial fulfillment of the requirement for the award of the Degree of Master of Science in Physics under the University of Kerala.

lipmin Sami Head of the department 6/6/2029

Ms. Priyadarsini.G Assistant Professor & Head Department of Physics SNCW, Kollam



भारत सरकार अंतरिक्ष विभाग विक्रम साराभाई अंतरिक्ष केन्द्र तिरुवनन्तपुरम-695 022 केरल, भारत फोन : (0471) 256 3326 फेक्स : (0471) 270 6535

तार/Gram: SPACE



Government of India Department of Space Vikram Sarabhai Space Centre Thiruvananthapuram-695 022 Kerala, INDIA Telephone : (0471) 256 3326 Fax : (0471) 270 6535

ई-मेल/e-mail: kk_sobhan@vssc.gov.in

Space Physics Laboratory

Certificate

This is to certify that this project report entitled "A Study on Atmospheric Aerosol Chemical Composition using Mass-spectrometry Technique" submitted by Ms. K R Reshmiraj for the partial fulfillment of the requirement for the award of the Degree of Master of Science in Physics has been successfully carried out at the Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram.

My hearty best wishes for her success in life.

K. Junon Kumed = 29/4/24

Dr. Sobhan Kumar Kompalli Scientist-SF, SPL, VSSC Thiruvananthapuram

हॉ. गोभन कुमार कॉपल्ली/Dr. Sobhan Kumar Kompalli रेज्ञानिक/इज्ञीनियर एसएफ/Scientist/Engineer SF अन्तरिक्ष भौतिकी प्रयोग**गाना/Space Physics Laboratory** रिक्रम साराभाई अंतरिक्ष केंट्र/Vikram Sarabhai Space Centre भारतीय अन्तरिक्ष अनुसंधान संगठन/ Indian Space Research Organisation अन्तरिक्ष यिभाग, भारत सरकार/Dept. of Space, Govt. of India रिरुवनंतपुरम, भारत/Thiruvananthapuram, India, 695022

Indian Space Research Organisation

भारतीय अंतरिक्ष अनुसंधान संगठन

Synthesis and Characterisation of Cerium Doped Lanthanum Stabilized Zirconate

Project Report submitted to

University of Kerala

in partial fulfillment for the award of the degree of

Master of Science

in **Physics**

by

Abhirami M

(Reg No: 63022129003 Exam Code: 63020403 Subject Code: PH 201)

Under the supervision of **Dr. Sibi. K. S** Department of Physics University of Kerala



Department of Physics Sree Narayana College for Women, Kollam 2022–2024



DEPARTMENT OF PHYSICS

SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM

CERTIFICATE

This is to certify that work embodied in the project report entitled "Synthesis and Characterization of Cerium Doped Lanthanum Stabilized Zirconate" has been carried out by Ms. Abhirami M (Candidate code: 63022129015) during the year 2022-2024 under the guidance of Dr. Sibi K.S, Assistant professor, Department of Physics, University of Kerala in partial fulfilment of requirements for the completion of the course of Master of Degree in Physics under the University of Kerala at Sree Narayana College for Women, Kollam.

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Ms. RESMI.S

Assistant Professor and Head Department of Physics SNCW, Kollam

Evaluated by

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UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act 1974 passed by Kerala State Legislative Assembly)

(NAAC Reaccredited with 'A++' Grade)



DEPARTMENT OF PHYSICS

KARYAVATTOM THIRUVANANTHAPURAM-695581 KERALA, INDIA e-mail: kuphysics76@gmail.com Phone 0471 - 2308920

Date: 05-09-2024

CERTIFICATE

This is to certify that work embodied in the project report entitled, "Synthesis and Characterization of Cerium Doped Lanthanum Stabilized Zirconate" has been carried out by Ms. Abhirami M. under my supervision and guidance at Department of Physics, University of Kerala.

Dr. Sibi K S

Dr. SIBI K. S. Assistant Professor Department of Physics University of Kerala Thiruvananthapuram, Kerala-695581

Kariavattom

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A COMPARATIVE STUDY ON THE STRUCTURAL AND OPTICAL PROPERTIES OF NANOCERIA SYNTHESIZED BY COMBUSTION AND CO-PRECIPITATION METHODS

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Project report submitted to university of Kerala in partial fulfillment of the requirement for the award of degree of

> MASTER OF SCIENCE IN PHYSICS SUBJECT CODE: PH201 EXAM CODE: 63020403



UNIVERSITY OF KERALA 2022-24

Submitted by

ANILA S

Register No: 63022129005

Under the Guidance of,

Dr. Prabha Jyothi P.S.

Assistant Professor,

Department of physics

SNCW, Kollam.

CERTIFICATE

This is to certify that this is a bonafide certificate of the project work entitled "A comparative study on the structural and optical properties of nanoceria synthesized by combustion and co-precipitation methods" is an authentic record of the project work carried out by ANILA S (Candidate code: 63022129005) during the year 2022-2024 in partial fulfilment of requirements for the completion of the course of Master of Science in Physics under the University of Kerala at Sree Narayana College for Women, Kollam.

Ms. Resmi. S

Assistant Professor & Head of Department of Physics SNCW, Kollam

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Project Guide: Dr. Prabha Jyothi P.S. Assistant Professor Department of Physics SNCW, Kollam



1)

SUPERCAPACITOR APPLICATIONS OF PURE AND CERIUM DOPED IRON OXIDE NANOPARTICLES Dissertation Submitted to the University of Kerala for the Partial Fulfilment of Requirement for the Award of the Degree of MASTER OF SCIENCE

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In PHYSICS



Submitted by

Akhila V

Register No: 63022129004

Under the guidance of

Dr.D.SAJAN

Head & Professor

Department of Physics

Bishop Moore College, Mavelikara

Project report 2024

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GREEN SYNTHESIS AND CHARACTERIZATION OF CHITOSAN-SILVER/POLYETHYLENE GLYCOL BIODEGRADABLE FILM FROM LEAF EXTRACT OF SIMAROUBA GLAUCA

DISSERTATION SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF DEGREE OF

> MASTER OF SCIENCE IN CHEMISTRY BY PRIYANKA J

> > CANDIDATE CODE : 63522129014 COURSE CODE : 635

> > > Under the guidance of

Dr. Asha Bhanu A V

Assistant Professor



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM-691001

August, 2024

CERTIFICATE

This is to certify that the dissertation titled "Green synthesis and characterization of Chitosan-Silver/Polyethylene glycol biodegradable film from leaf extract of Simarouba glauca" is a record of studies carried out by Priyanka J, at the Department of Chemistry, Sree Narayana College for Women, Kollam, under the guidance and submitted to the University of Kerala in partial fulfilment of the Degree of Master of Science in Chemistry.

Dr. Suma S Head, Department of Chemistry Sree Narayana College for Women Kollam Dr. Asha Bhanu A V Assistant Professor Sree Narayana College for Women Kollam

PHOTOCATALYTIC DEGRADATION OF DYES UNDER SOLAR LIGHT IRRADIATION USING GREEN-SYNTHESIZED ZnO NANOPARTICLES

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A project report submitted to the University of Kerala in partial fulfillment of the requirement for the award of the degree of MASTER OF SCIENCE IN CHEMISTRY

By

MEENU KRISHNA B

Candidate Code : 63522129010Exam Code : 63520403Course Code : CH 243(a)



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM, KERALA-691001 2022-24



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DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM-691001

sncollegeforwomen@gmail.com

CERTIFICATE

This is to certify that the dissertation entitled " *Photocatalytic degradation of dyes under solar light irradiation using green-synthesised ZnO nanoparticles* " is an authentic record of the research work carried out by Ms. **MEENU KRISHNA B**, at the Department of Chemistry, Sree Narayana College for Women, Kollam under the guidance of Dr. Renjini S and Ms Pavitha P.A , Assistant Professors, Department of Chemistry Sree Narayana College for the partial fulfillment of the requirement for the degree of Master of Science in Chemistry, Kerala University (S N College for Women).

fred

Dr. SUMA S Head of the Department Department of Chemistry S N College for Women, Kollam

Kollam August 2024



EVALUATION OF HYDRO CHEMICAL PARAMETERS & HYDROCHEMICAL ASSESSMENT OF WATER QUALITY INDEX IN WAYANAD DISTRICT, KERALA, INDIA

A project report submitted to University of Kerala in partial fulfilment of the requirement for the award of the degree of

Master of Science in Chemistry

By

NADIYA FATHIMA T

Register Number: 63522129011



Department of Chemistry

Sree Narayana College for Women, Kollam, Kerala-691001

Under the guidance of

Dr. K. ANOOP KRISHNAN

Scientist E., Biogeochemistry Group (BgG) ESSO- NATIONAL CENTRE FOR EARTH SCIENCE (NCESS)AKKULAM, THIRUVANATHAPURAM





राष्ट्रीय पृथ्वी विज्ञान अध्ययन केन्द्र NATIONAL CENTRE FOR EARTH SCIENCE STUDIES पृथ्वी विज्ञान मंत्रालय, भारत सरकार Ministry of Earth Sciences, Government of India पी.बी.नं. 7250, आक्कुलम, विच्वनन्वपुरम - 695011, मारत PB No. 7250, Akkulan, Thiruvananthapuran-695011, India



06.09.2024

Dr. K. Anoop Krishnan Scientist & Supervising Guide Biogeochemistry Group

CERTIFICATE

This is to certify that Ms. NADIYA FATHIMA T (Reg. No: 63522129011), a bonafide full-time student of Kerala University, successfully has completed her dissertation entitled "EVALUATION OF HYDROCHEMICAL PARAMETERS & HYDROCHEMICAL ASSESSMENT OF WATER QUALITY INDEX IN WAYANAD DISTRICT, KERALA, INDIA" in partial fulfilment for the award of Master's Degree in Chemistry (2022-2024), SREE NARAYANA COLLEGE FOR WOMEN, Kollam, Kerala. This is an authentic record of the original research work carried out by her under my supervision and guidance, and no part of this work has been used for any other degree before. The work has been carried out in the Central Chemical Laboratory, Biogeochemistry Group, National Centre for Earth Science Studies, Ministry of Earth Science Studies, Akkulam, Trivandrum, Government of India.

TRE___

Dr. K. Anoop Krishnan (Supervising Guide)

CHITOSAN DOPED HYBRID/TiO2

NANOCOMPOSITE BASED EPOXY COATINGS FOR CORROSION PROTECTION

A project report submitted to the University of Kerala in partial fulfillment of therequirement for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY BY BIJUSHA B K

Candidate Code: 63522129008 Exam Code : 63520403 Course Code : CH 243(a)



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM, KERALA-691001

2022-24



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM-691001

sncollegeforwomen@gmail.com

CERTIFICATE

This is to certify that dissertation entitled "chitosan doped hybrid /TiO₂ Nanocomposite Based Epoxy Coatings for corrosion protection", is an authentic record of the research work carried out by Ms. BIJUSHA B K The Department of chemistry, Sree Narayana college for Women, Kollam under the guidance of Dr. Vijayalekshmi V, Assistant Professor department of chemistry Sree Nayarayana College for Women, kollam for the partial fulfilment of the requirement for the degree of Master of science in chemistry Kerala university (SN college for Women Kollam).

Kollam August 2024



Dr. SUMA S Head of the Department Department of Chemistry S N College for Women, Kollam

In silico analysis of Doxorubicin analogues: PS80 conjugation targeting sustained delivery to the brain for the treatment of Brain tumor

A project report submitted to University of Kerala in partial fulfilment of the requirement for the award of the degree of

Master of Science in Chemistry

By

LEKSHMI D KARUNAN S

Register Number: 63522129009



Department of Chemistry

Sree Narayana College for Women, Kollam, Kerala-691001

Under the guidance of

Dr. Sandhya K.S.



Department of Chemistry

University of Kerala, Karyavattom, Thiruvananthapuram, Kerala-695581

June 2024



DEPARTMENT OF CHEMISTRY UNIVERSITY OF KERALA Kariavattom Thiruvananthapuram- 695581

Email: chem12uniker@gmail.com, Phone: 04712308682

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act 1974 passed by the Kerala State Legislative Assembly) (Re-accredited by NAAC with 'A++' Grade)

05-08-2024

CERTIFICATE

Certified that this report entitled "In silico analysis of Doxorubicin analogues: PS80 conjugation targeting sustained delivery to the brain for the treatment of brain tumor" is a bonafide record of the project work done by Ms. Lekshmi D Karunan S, Reg No. 63522129009 during the period from 1stApril 2024 to 3thJune 2024 under my guidance at the Department of Chemistry, University of Kerala, towards the partial fulfilment of the requirements for the award of the degree M.Sc Chemistry, Department of Chemistry, Sree Narayana College for Women, Kollam.

Dr.Sandhya K. S.

Asst. Professor (Tenure track)



Department of Chemistry

University of Kerala

BIOGENIC SYNTHESIS OF MANGANESE AND IRON NANOPARTICLES USING BETA VULGARIS EXTRACTS FOR ELECTROCHEMICAL APPLICATIONS

A project report submitted to the University of Kerala in partial fulfillment of the requirement for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

AKSHAYA ASHOK

Candidate Code : 63522129002Exam Code63520403Course Code: CH 243(a)



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM, KERALA-691001 2022-24



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM-691001

sncollegeforwomen@gmail.com

CERTIFICATE

This is to certify that the dissertation entitled "Biogenic Synthesis Of Manganese and Iron Nanoparticles Using Beta Vulgaris Extracts For Electrochemical Applications " is an authentic record of the research work carried out by Ms. AKSHAYA ASHOK, at the Department of Chemistry, Sree Narayana College for Women, Kollam under the guidance of Dr. Renjini S and Ms Pavitha P.A , Assistant Professors, Department of Chemistry Sree Narayana College for Women, Kollam, for the partial fulfillment of the requirement for the degree of Master of Science in Chemistry, Kerala University (S N College for Women).

Kollam

August 2024



Dr. SUMA S

Head of the Department Department of Chemistry S N College for Women, Kollam

"Broad emitting divalent Europium-activated Sr_{0.9}Ba_{0.9}SiO₄ phosphor for LED lighting and display applications"

A Project report submitted in partial fulfillment of the requirements for the

degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

ANU M. MARIYAM

Candidate code: 63522129004

Exam code: 63520104

Subject code: CH 243

Under the guidance of

Dr. Subrata Das

Principal Scientist



Materials Science and Technology Division CSIR- National Institute for Interdisciplinary Science and Technology Thiruvananthapuram, 695019

UNIVERSITY OF KERALA



National Institute for Interdisciplinary Science and Technology (NIIST)



Council of Scientific & Industrial Research (CSIR) Ministry of Science and Technology, Government of India Industrial Estate P. O., Trivandrum - 695 019 Kerala, INDIA



Dr. Subrata Das Principal Scientist, Materials Science and Technology Division Tel: 91-471-2515360 (O), 7407825435 (M) Email: subratadas@niist.res.in physubrata@gmail.com

CERTIFICATE

This is to certify that the work embodied in the project report entitled "Broad emitting divalent Europium-activated $Sr_{0.9}Ba_{0.9}SiO_4$ phosphor for LED lighting and display applications" has been carried out by **Ms. Anu M. Mariyam** under my supervision at the Material Sciences and Technology Division of CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum during the period April 2024-June 2024 in partial fulfillment of the Degree of Master of Science in Chemistry. The present work or any part thereof has not been submitted elsewhere for the award of any other degree.

Sulavata Daz_

Thiruvananthapuram

June 2024

Dr. Subrata Das (Project Supervisor)

DEVELOPMENT OF TITANIUM DIOXIDE NANOSTRUCTURE-BASED NON-ENZYMATIC ELECTROCHEMICAL SENSOR FOR GLUCOSE DETECTION

DISSERTATION SUBMITTED TO THE UNIVERSITY OF KERALA IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF DEGREE OF

MASTER OF SCIENCE IN CHEMISTRY

BY

SABARI UMESH

CANDIDATE CODE: 63522129016 COURSE CODE: 635

Under the supervision of

Dr. POORNIMA VIJAYAN P

Assistant Professor



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN, KOLLAM-691001 August, 2024

CERTIFICATE

This is to certify that the dissertation titled "Development of Titanium Dioxide nanostructure based non-enzymatic electrochemical sensor for glucose detection" is a record of studies carried out by Sabari Umesh, at the Department of Chemistry, Sree Narayana College for Women, Kollam, under the guidance and submitted to the University of Kerala in partial fulfillment of the Degree of Master of Science in Chemistry.

Dr. Suma S Head, Department of Chemistry Sree Narayana College for Women Kollam Dr. Poornima Vijayan P Assistant Professor Sree Narayana College for Women Kollam

HYDRO CHEMICAL ANALYSIS AND EVALUATION OF WATER QUALITY FOR IRRIGATION PURPOSES IN TALIPARAMBA, KANNUR DISTRICT, KERALA, INDIA

A project report submitted to University of Kerala in partial fulfilment of the requirement for the award of the degree of

Master of Science in Chemistry

By

NIRANJANA UNNI V V

Register Number: 63522129012



Department of Chemistry

Sree Narayana College for Women, Kollam, Kerala-691001

Under the guidance of

Dr. K. ANOOP KRISHNAN

Scientist E., Biogeochemistry Group (BgG) ESSO- NATIONAL CENTRE FOR EARTH SCIENCE (NCESS)AKKULAM, THIRUVANATHAPURAM





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06.09.2024

Dr. K. Anoop Krishnan Scientist & Supervising Guide Biogeochemistry Group

CERTIFICATE

This is to certify that Ms. NIRANJANA UNNI V.V. (Reg. No: 63522129012), a bonafide full-time student of Kerala University, successfully has completed her dissertation entitled "HYDROCHEMICAL ANALYSIS AND EVALUATION OF WATER QUALITY FOR IRRIGATION PURPOSES IN TALIPARAMBA, KANNUR DISTRICT, KERALA, INDIA" in partial fulfilment for the award of Master's Degree in Chemistry (2022-2024), SREE NARAYANA COLLEGE FOR WOMEN, Kollam, Kerala. This is an authentic record of the original research work carried out by her under my supervision and guidance, and no part of this work has been used for any other degree before. The work has been carried out in the Central Chemical Laboratory, Biogeochemistry Group, National Centre for Earth Science Studies, Ministry of Earth Science Studies, Akkulam, Trivandrum, Government of India.

Dr. K. Anoop Krishnan (Supervising Guide)

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GREEN SYNTHESIS OF SILVER NANOPARTICLES AND CHARACTERISATIONS USING BACCAUREA COURTALLENSIS LEAF EXTRACT AND EVALUATION OF IT'S ANTIBACTERIAL ACTIVITY

A project report submitted to the University of Kerala in partial fulfillment of the requirement for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY BY ARYA S MURALEEDHARAN

Candidate Code: 63522129006 Exam Code: 63520403 Course Code: CH 243(a)



DEPARTMENT OF CHEMISTRY SREE NARAYANA COLLEGE FOR WOMEN KOLLAM, KERALA-691001

2022-2024



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CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of silver nanoparticles and characteriasations using Baccaurea courtallensis leaf extract and evaluation of its antibacterial activity" is an authentic record of the research work carried out by Ms. ARYA S MURALEEDHARAN, at the Department of Chemistry, Sree Narayana College for Women, Kollam under the guidance of Ms.Asha C. L, Assistant Professor, Department of Chemistry Sree Narayana

College for Women, Kollam, for the partial fulfillment of the requirement for the degree of Master of Science in Chemistry, Kerala University (S N College for Women).

Kollam

August 2024

Dr. SUMA S Head of the Department Department of Chemistry S N College for Women, Kollam
HYDRO CHEMICAL ASSESSMENT OF GROUNDWATER AND SURFACE WATER QUALITY & EVALUATION OF HYDRO CHEMICALPARAMETERS IN NEYYATTINKARA AREA, KERALA, INDIA

A project report submitted to University of Kerala in partial fulfilment of the requirement for the award of the degree of

Master of Science in Chemistry

By

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Sree Narayana College for Women, Kollam, Kerala-691001

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Dr. K. Anoop Krishnan (Supervising Guide)

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ANALYSIS OF WATER QUALITY INDEX USING HYDROCHEMICAL PARAMETERS AND EVALUATION OF WATER QUALITY OF DHARMADAM AREA, LOCATED IN THALASSERY TALUK, KANNUR, KERALA, INDIA

A project report submitted to University of Kerala in partial fulfilment of the requirement for the award of the degree of

Master of Science in Chemistry

By

AAVANI RAJ

Register Number: 63522129001



Department of Chemistry

Sree Narayana College for Women, Kollam, Kerala-691001

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Dr. K. Anoop Krishnan Scientist & Supervising Guide Biogeochemistry Group

CERTIFICATE

This is to certify that Ms. AAVANI RAJ (Reg. No: 63522129001), a bonafide full-time student of Kerala University, successfully has completed her dissertation entitled "ANALYSIS OF WATER QUALITY INDEX USING HYDROCHEMICAL PARAMETERS AND EVALUATION OF WATER QUALITY OF DHARMADAM AREA, LOCATED IN THALASSERY TALUK, KANNUR, KERALA, INDIA" in partial fulfilment for the award of Master's Degree in Chemistry (2022-2024), SREE NARAYANA COLLEGE FOR WOMEN, Kollam, Kerala. This is an authentic record of the original research work carried out by her under my supervision and guidance, and no part of this work has been used for any other degree before. The work has been carried out in the Central Chemical Laboratory, Biogeochemistry Group, National Centre for Earth Science Studies, Ministry of Earth Science Studies, Akkulam, Trivandrum, Government of India.

Dr. K. Anoop Krishnan (Supervising Guide)

MENSTRUAL HYGIENE AND WASTE DISPOSAL PRACTICES / CHALLENGES OF COLLEGE GIRLS

Thesis submitted to the University of Kerala in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN HOME SCIENCE (FAMILY RESOURCE MANAGEMENT)

Candidate code:	65522129003
Exam code:	65521402
Subject code:	HS 545B



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SREE NARAYANA COLLEGE FOR WOMEN

KOLLAM, KERALA

" AR CARIN

2024

A STUDY ON HOMEMAKERS OPINIONS **REGARDING THE USE OF ORGANIC PRODUCTS**

Thesis submitted to the University of Kerala in partial fulfilment of the requirement for the Degree of

MASTER OF SCIENCE IN HOME SCIENCE

(FAMILY RESOURCE MANAGEMENT)

Candidate Code	: 65522129005
Exam Code	: 65521402
Subject Code	: HS 545B





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2024

EMPOWEMENT AND IT'S INFLUENCE ON WOMEN'S ATTITUDE TOWARDS DOWRY

Thesis submitted to the University of Kerala in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN HOME SCIENCE (FAMILY RESOURCE MANAGEMENT)

Candidate code:	65522129001
Exam code:	65521402
Subject code:	HS 545B





SREE NARAYANA COLLEGE FOR WOMEN

KOLLAM, KERALA

2024

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THE INFLUENCE OF SALES PROMOTION STRATEGIES OF ONLINE BEAUTY VLOGGERS ON THE PURCHASING OF COSMETIC PRODUCTS AMONG COLLEGE GIRLS

Thesis submitted to the University of Kerala in partial fulfilment of the requirement for the Degree of

MASTER OF SCIENCE IN HOME SCIENCE

(FAMILY RESOURCE MANAGEMENT)

Candidate Code : 65522129002

Exam Code : 65521402

Subject Code : HS 545B





SREE NARAYANA COLLEGE FOR WOMEN KOLLAM

2024

THE INFLUENCE OF SALES PROMOTION STRATEGIES OF **ONLINE BEAUTY VLOGGERS ON THE PURCHASING OF COSMETIC PRODUCTS AMONG COLLEGE GIRLS**

MASTER OF HOMESCIENCE

(FAMILY RESOURCE MANAGEMENT)



2022 - 2024