



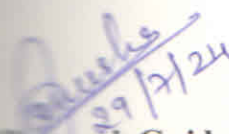
# MANGALORE UNIVERSITY

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M.Sc. Biochemistry Programme, Mangalagangothri 574199

## CERTIFICATE

This is to certify that the dissertation entitled "**Isolation and Characterization of Pectin Extracted from *Myristica fragrans***" submitted to Mangalore University, Mangalore by **Ms. Kavya S N (Reg. No. P05AZ22S020032)**, under the guidance of **Ms. Anusha U Bhat** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of genuine and original research work carried by her in the academic year 2023-2024.


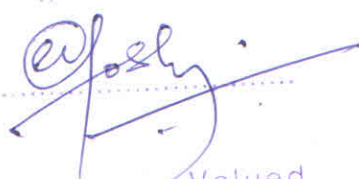
  
29/7/24  
Research Guide

  
Coordinator  
Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri - 574 199  
Mangalore D.K.

Place: Mangalagangothri

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## CERTIFICATE

This is to certify that the dissertation entitled **"Fabrication and Characterization of p-Coumaric acid doped PVA/Lignin Electrospun Nanofiber and Biofilm"** submitted to Mangalore University, Mangalore by **Harshitha (Reg. No. P05AZ22S020033)**, under the guidance of **Dr. Niveditha N.B** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

*Niveditha*  
29/7/2024  
Research Guide

*[Signature]*  
Coordinator  
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Mangalore University  
Mangalagangothri - 574 199  
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M.Sc. Biochemistry Programme, Mangalagangothri 574199

## CERTIFICATE

This is to certify that the dissertation entitled “**Phytochemical screening, Antioxidant assay and Extraction of agar from *Gracilaria salicornia* and *Gelidiella acerosa***” submitted to Mangalore University, Mangalore by **LAVANYA J D (Reg. No. P05AZ22S020034)**, under the guidance of **Prof. CHANDRASHEKAR G JOSHI** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024

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Mangalagangothri - 574 199  
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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE



This is to certify that the dissertation entitled **Comparative Phytochemical analysis of *Ficus racemosa* fruit wine & fruit extract** submitted to Mangalore University, Mangalore by Ms. Vaishnavi N Pai (Reg. No. **P05AZ22S020035**), under the guidance of Mr Ramesh K towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
Research Guide

  
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Mangalagangothri 574 199  
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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

### CERTIFICATE

This is to certify that the dissertation entitled "**Role of Matrix metalloproteinases in Bleomycin and TGF- $\beta$  induced pulmonary fibrosis**" submitted to Mangalore University, Mangalore by **Ms. GAYANA K S** (Reg. No. P05AZ22S020036), under the guidance of **Dr Yashodhar P Bhandary**, Professor, Yenepoya Research Centre, Yenepoya (Deemed to be University) towards partial fulfilment of the Master of Science degree in Biochemistry in the academic year 2023-2024.

  
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Place: Mangalagangothri

Date: 30-07-2024

  
Coordinator  
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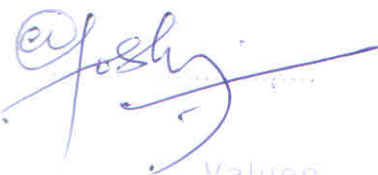
Whereas the dissertation entitled "Synthesis, Characterization & Biological activities of *Chlorophytum comosum*-based Gold Nanoparticles" submitted to Mangalore University, Mangalore by Gautam Raj (P05AZ22S020037), under the guidance of the undersigned towards partial fulfilment of the Master of Science degree in Biochemistry, is found to be bona fide and original research work carried by him in the academic year 2022-23.

  
Coordinator

Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri 574 199  
Mangalore D.K.

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# MANGALORE UNIVERSITY



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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "**Assessment of Correlation of Serum Gamma-glutamyl Transferase with Renal Function Markers in Chronic Kidney Disease**" submitted to Mangalore University, Mangalore by **MS. ANANYA V M (Reg. No. 2023BIO0038)**, under the guidance of **Dr. Shivashankara A R (External guide)**, Professor of Biochemistry, Father Muller Research Centre, Father Muller Medical College, towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

Project Guide

  
**DR SHIVASHANKARA A R, PhD**  
Professor of Biochemistry  
Father Muller Medical College  
Mangalore 575002

Place: Mangalagangothri  
Date: 30/07/2024

  
Coordinator

Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri - 574 199  
Kannur District, K.

EXAMINERS

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "Assessment of Correlation of Serum Gamma-glutamyl transferase with Glycaemic status in Type 2 Diabetes Mellitus" submitted to Mangalore University, Mangalore by MS. SNEHA P (Reg. No. P05AZ22S020039), under the guidance of Dr. Shivashankara A.R (External guide), Professor of Biochemistry, Father Muller Research Centre, Father Muller Medical College, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

Project Guide

DR SHIVASHANKARA AR, PhD  
Professor of Biochemistry  
Father Muller Medical College  
Mangalore 575002

Coordinator

Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri - 574 199  
Mangalore D.K.

EXAMINERS:

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "**Phytochemical Screening, in-vitro Antioxidant Assessment and Characterisation of Seaweeds *Chaetomorpha aerea* and *Porphyra indica* - a Comparative Study**" submitted to Mangalore University, Mangalore by **Mr. Siddesh A. Sampurkar** (Reg. No. P05AZ22S020040), under the guidance of **Dr. Anitha Nagaraju** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of sincere and original research work carried by her in the academic year 2023-2024.

Project Guide

*Anitha*  
29/7/2024

Coordinator

*A. Joshi*  
Coordinator  
M.Sc. in Biochemistry  
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Mangalagangothri - 574 199  
Mangalore D.K.

Place: Mangalagangothri

Date: 31/07/2024

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1. *[Signature]*

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "Assessment of Correlation of Serum Amylase with HbA1C in Type 2 Diabetes Mellitus" submitted to Mangalore University, Mangalore by **Ms. SEARANYA R** (Reg. No.P05AZ22S020041), under the guidance of **Dr.Shivashankara** (External Guide), Professor of Biochemistry, Father Muller Research Centre, Father Muller Medical College, towards partial fulfilment of the Master of Science degree in Biochemistry, is a **genuine record of bona fide and original research work** carried by her in the academic year 2023-2024.

  
Project Guide

**DR SHIVASHANKARA AR, PhD**  
Professor of Biochemistry  
Father Muller Medical College  
Mangalore 575002

Place: Mangalagangothri

Date: 30-07-2024

  
Coordinator  
M.Sc. in Biochemistry  
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Mangalore D.K.

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "**Phytoremediation potential of *Pistia***" submitted to Mangalore University, Mangalore by **Rashmitha R Y** (Reg. No. **2022MBC0042**), under the guidance of **Dr. Avila D'Souza**, Euchem Biologicals, Udupi, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year **2022-2024**.

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Shree Tower, NH-66  
Kannur, Udupi - 576 105

Place: Mangalagangothri

Date: 11-07-2024


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## CERTIFICATE

This is to certify that the dissertation entitled "Green synthesis of ZnO-np from Allium cepa and characterization of PVA/lignin/ZnO-NP nanocomposite film" submitted to Mangalore University, Mangalore by **Mr. Shyama Prakasha P S** (Reg. No. **MSA22NS00143**), under the guidance of **Dr. Niveditha N.B** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

*Niveditha N.B*  
30/7/2024  
Research Guide

*[Signature]*  
Coordinator  
Coordinator  
M.Sc. in Biochemistry  
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Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri  
Date: 31-07-2024

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled **Phytochemical analysis and synthesis of zinc oxide nanoparticles from *Breynia vitis idaea*** submitted to Mangalore University, Mangalore by **Mamatha (Reg. No. P05AZ22S020044)**, under the guidance of **Dr. Niveditha** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

*Niveditha*  
29/7/2024  
Research Guide

*[Signature]*  
Coordinator -  
Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri  
Date: 30-07-2024

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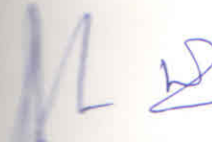
  
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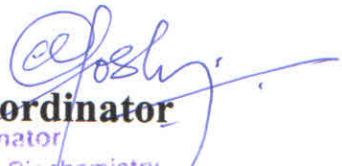
**M.Sc. Biochemistry Programme, Mangalagangothri 574 199**

**CERTIFICATE**

This is to certify that the dissertation entitled "**Evaluation of antimicrobial activity and antidiabetic property of *Syzygium aqueum* leaf extract**" submitted to Mangalore University, Mangalore by **Arshiya A M (Reg. No. P05AZ22S020045)**, under the guidance of **Dr. Avila D'Souza** Echem biologist Udupi, towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
**Research Guide** 27/7/2024

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Mangalore University  
Mangalagangothri - 574 199  
Mangalore D.K.

Place Mangalagangothri

Date: 30/07/2024

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled “Green Synthesis of ZnO Nanoparticles from *Caesalpinia mimosoides* Lamk and Fabrication of PVA/Collagen/ZnO Nano Composite Film” submitted to Mangalore University, Mangalore by **Tejaswini B N** (Reg. No. **MSA222NS020046**), under the guidance of **DR. Niveditha N B** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

Niveditha  
29/7/2024  
Research Guide

@foshy  
Coordinator  
Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri

Date: 31-07-2024

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**M.Sc. Biochemistry Programme, Mangalagangothri 574 199**

## **CERTIFICATE**

This is to certify that the dissertation entitled "**IN-VITRO PHARMACOLOGICAL ACTIVITIES OF STROBILATHES ALTERNATA: A POTENTIAL DRUG DISCOVERY FROM NATURE**" submitted to Mangalore University, Mangalore by **CHARISHMA P D** (Reg. No. P05AZ22S020047), under the guidance of **MS. ANUSHA U BHAT** towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
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**Project Guide**

  
**Coordinator**  
Coordinator  
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Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri

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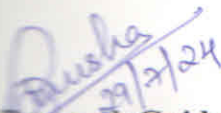
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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled “Synthesis & characterization of copper based nanoparticles from *Mangifera indica* leaf extract” submitted to Mangalore University, Mangalore by **Ms. Madhushri Prabhakar Devadiga (Reg. No. PMSAZ22S020048)**, under the guidance of **Ms. Anusha U Bhat** towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
29/7/24  
Research Guide

  
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Coordinator  
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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "Fabrication and Characterization of Caffeic acid doped PVA/Lignin Electrospun Nanofiber and Biofilm" submitted to Mangalore University, Mangalore by Afrin Hawwa Abdul Azeez (Reg. No. P05AZ22S020049), under the guidance of Dr. Niveditha N.B towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
Research Guide

  
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**CERTIFICATE**

This is to certify that the dissertation entitled "**Evaluation of antimicrobial activity & antitubercular property of *Bryophyllum pinnatum* leaf extract**" submitted to Mangalore University, Mangalore by **Nikhitha (Reg. No. P05AZ22S020050)**, under the guidance of **Dr. J. S. Souza** (external guide) Eucchem biologist S, Research Laboratory and Training Centre, Santhekatte, Udupi, towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
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Santhekatte, Udupi - 576 105

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**Coordinator**  
Coordinator  
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## CERTIFICATE

This is to certify that the dissertation entitled "**Evaluation of the synergistic antimicrobial efficacy of *Citrus limon*, *Allium cepa*, and *Ocimum sanctum* extracts**" submitted to Mangalore University, Mangalore by **Basavaraj Laxman Dharwad (Reg. No. PO5AZ22S020051)**, under the guidance of **Dr. Chandrashekar G Joshi** towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by herin the academic year 2023-2024.

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Coordinator

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Mangalore D.K.

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "Nutritional evaluation of local fruits and vegetables" submitted to Mangalore University, Mangalore by **Nagapriya (Reg.No. 1954222S020052)**, under the guidance of **Dr. Avila D'Souza**, Echem Biologicals Udupi, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bonafide and original research work carried by her in the academic year 2023-2024.

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Santhekatte, Udupi - 576 105

Coordinator

Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri

Date: 31-07-2024

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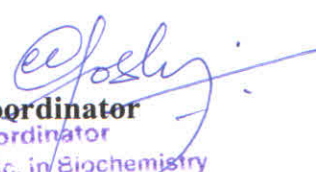
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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "Phytochemical analysis, synthesis and characterization of Zinc nanoparticles from *Lantana camara*" submitted to Mangalore University, Mangalore by Poornima (Reg. No. P05AZ22S020053), under the guidance of Dr. Chandrasekhar G. Joshi towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
Research Guide

  
**Coordinator**  
Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri  
Date: 30-07-2024

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "PHYTOCHEMICAL SCREENING, ANTIOXIDANT ASSAY AND EXTRACTION OF AGAR FROM *Kappaphycus Alvarezii* and *Gracilaria edulis*" submitted to Mangalore University, Mangalore by **Arungouda Patil** (Reg. No. PMSA/222SI/20054), under the guidance of **Prof. Chandrashekar G Joshi** towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

Coordinator

Dr. Chandrashekar G Joshi  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri - 574 199  
Mangalore Dist.

Date: 28-07-2024

Place: Mangalagangothri

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M.Sc. Biochemistry Programme, Mangalagangothri 574 199

## CERTIFICATE

This is to certify that the dissertation entitled "**BIOLOGICAL ACTIVITIES OF *FICUS HISPIDA*, SYNTHESIS AND CHARACTERIZATION OF GOLD NANOPARTICLE**" submitted to Mangalore University, Mangalore by **Shravya (Reg. No. P05AZ22S020055)**, under the guidance of **Prof. Chandrashekar G. Joshi** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
Research Guide

  
Coordinator

Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri  
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Place: Mangalagangothri

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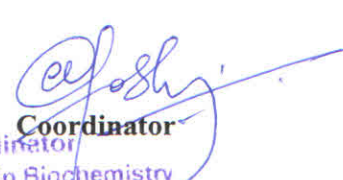
(Accredited by NAAC)

M.Sc. Biochemistry Programme, Mangalagangothri 574 199

### CERTIFICATE

This is to certify that the dissertation entitled "**Phytochemical Analysis and Extraction of**  
**Neolin from *Limonia acidissima***" submitted to Mangalore University, Mangalore by  
**Shalini M. (Reg. No. P05AZ22S020056)**, under the guidance of Dr. Anitha Nagaraju  
towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of  
her original research work carried by her in the academic year 2023-2024.

  
Research Guide

  
Coordinator  
M.Sc. in Biochemistry  
Mangalore University  
Mangalagangothri - 574 199  
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Place: Mangalagangothri

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574 199

## CERTIFICATE

This is to certify that the dissertation entitled "**A Study on Antioxidant and Antibacterial Properties of *Cyclea peltata***" submitted to Mangalore University, Mangalore by **SANKETH KILMAR K** (Reg. No. **P05AZ22S020057**), under the guidance of **MS. ANUSHA U BHAT** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by him in the academic year 2023-2024.

  
29/7/24  
Research Guide

  
Coordinator  
Coordinator  
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Mangalagangothri 574 199  
Mangalore D.K.

Place: Mangalagangothri  
Date: 31-07-2024

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This is to certify that the dissertation entitled “**Phytochemical Analysis and Extraction of** *Phenols from **Garcinia Indica***” submitted to Mangalore University, Mangalore by **Hemanth V** (Reg. No. **PH5AZ22S020058**), under the guidance of Dr. Niveditha N.B. towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

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This is to certify that the dissertation entitled "**Comparative Phytochemical Screening, in-vitro Antioxidant Assessment and characterisation of Marine Macro-Algae *Sargassum polyceratum* and *Turbinaria conoides***" submitted to Mangalore University, Mangalore by **Mr. Subhanshu Naik** (Reg. No. P05AZ22S020059), under the guidance of **Dr. Anitha Nagaraju** towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of genuine and original research work carried by her in the academic year 2023-2024.

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This is to certify that the dissertation entitled "Isolation And Characterization Of Oil Extracted From Sardine Visceral Waste –A Comparative Study" submitted to Mangalore University, Mangalore by **Sahana BS (Reg. No. P05AZ22S020060)**, under the guidance of **Vishakh R. Gadgilaya**, Assistant Professor, Central Research Laboratory K.S. Hegde Medical Academy, (Deemed to be University) Mangalore, towards partial fulfillment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

  
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This is to certify that the dissertation entitled “**Phytoremediation potential of Water hyacinth (*Eichhornia crassipes*)**” submitted to Mangalore University, Mangalore by **Agnes M Pai (Reg. No. P05AZ22S020061)**, under the guidance of **DR. Avila D’Souza** Biochem Biologicals Udupi, towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024.

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This is to certify that the dissertation entitled "**Phytochemical Analysis and Green synthesis of Silver Nanoparticles from *Tamarindus indica* shell extract**" submitted to Mangalore University, Mangalore by Mr. RAKESH K M (Reg. No. P05AZ22S020062), under the guidance of Dr. Niveditha N.B towards partial fulfilment of the Master of Science degree in Biochemistry, is a faithful record of bona fide and original research work carried by her in the academic year 2023-2024

  
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