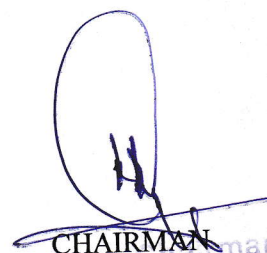


## CERTIFICATE

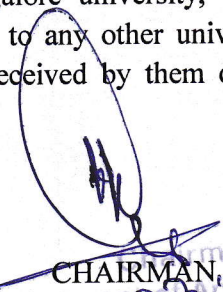
This is to certify that this work entitled "**A study on qualitative and quantitative parameters in the seeds of different varieties of *Oryza sativa.L***" submitted by the candidate of register number P05AZ22S028018 in partial fulfilment for degree of Master of Science in Botany of Mangalore University, contains the result of bonafied research carried out at Department of Applied Botany, Mangalore University.



CHAIRMAN  
Chairman  
Department of Applied Botany  
Mangalore University  
Mangaladangoiri - 574 199, D.K

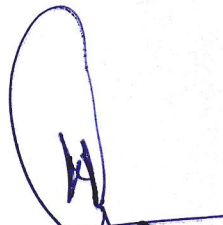
## CERTIFICATE

This is to certify that this work entitled “ **Isolation and identification characterization of Microflora of Rhizosphere soil of *Mangifera indica* and *Areca catechu*** submitted by the candidate whose register number P05AZ22S028019 for partial fulfilment for degree of master of science in Botany of Mangalore university, contains the result of bonafide research carried out by them at department of applied botany Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree of diploma. All sources of help received by them during the course of this work have been fully acknowledged.

  
CHAIRMAN, 24  
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Mangalore University  
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## CERTIFICATE

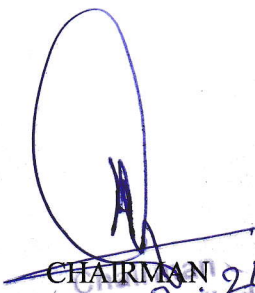
This is to certify that this work entitled "ISOLATION AND CHARACTERIZATION OF MICROFLORA OF RHIZOSPHERE SOIL OF *Hevea brasiliensis* AND *Cocos nucifera* L." submitted by P05AZ22S028020, in partial fulfillment for degree of master of science in Botany of Mangalore university, contains the result of bonafide research carried out by the candidate at department of applied botany, Mangalore university. No part of this has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN  
Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.  
11.07.24



## CERTIFICATE

This is to certify that this work entitled "ANALYSIS OF VERMICOMPOST QUALITY OBTAINED FROM SUGAR CANE BAGASSE AND PADDY STRAW BY *Eudrilus eugeniae*" submitted by P05AZ22S028021 in partial fulfillment for degree of master of science in Botany of Mangalore University, contains the result of bonafide research carried out by the candidate at Department of Applied Botany, Mangalore university. No part of this has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN  
11.03.24  
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Mangalore University  
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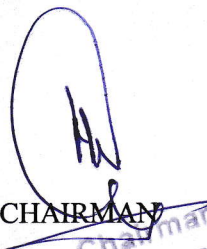
## CERTIFICATE

This is to certify that this work entitled "ANALYSIS OF MICROBIAL COMPOST QUALITY OBTAINED FROM ARECANUT HUSK AND LEAF LITTERS OF *Ficus carica L*" Submitted by P05AZ22S028022, in partial fulfillment for degree of master of science in botany in Mangalore university, contains the result of bonafide research carried out by the candidate at Department of Applied Botany Mangalore university. No part of this work has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN  
11.07.24  
Chairman  
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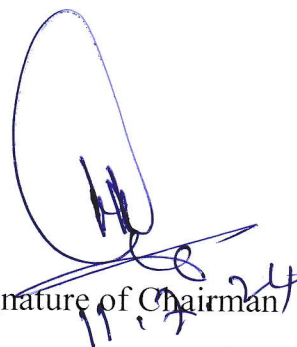
This is to certify that this work entitled **“Wine Production and their physico-chemical analysis and economics from fruits and vegetable wastes”** submitted by candidate of register number P05AZ22S028023 in partial fulfilment for degree of Master of Science in Botany of Mangalore University, contains the result of bonafied research carried out by the candidate at Department of Applied Botany, Mangalore University.

  
CHAIRMAN

Chairman  
Department of Applied Botany  
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## CERTIFICATE

This is to certify that this work entitled "A STUDY OF DIVERSITY OF ENDOPHYTIC FUNGI AND IT'S CHARACTERIZATION IN *Streblus asper*. L submitted by P05AZ22S28024, in partial fulfillment for degree of master of science in Botany of Mangalore University, contains the result of bonafide research carried out by her at Department of Applied Botany, Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree of diploma. All sources of help received by her during the course of this work have been fully acknowledged.



Signature of Chairman

Dr. Annaiah Ramesh

Department of Applied Botany

Chairman

Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.



## CERTIFICATE

This is to certify that the dissertation entitled “**Plant mediated synthesis and characterization of copper and zinc nanoparticles using *Terminalia catappa* and its application**” submitted to Mangalore university, Mangalagangothri by **Reg. No. P05AZ22S028025**, in the partial fulfilment of the master of science degree in Applied Botany, is a faithful record of bonafide and original research work carried by her in the academic year 2023-2024.

  
Signature of Chairman

Dr. Annaiah Ramesh

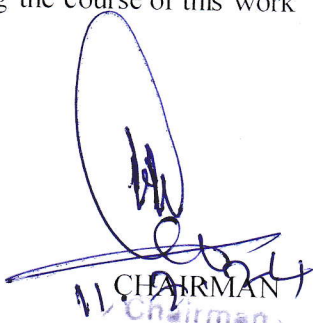
Department of Applied Botany

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Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.



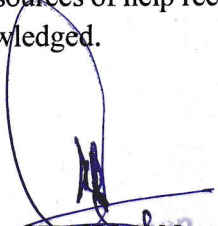
## CERTIFICATE

This is to certify that this work entitled **Water quality assessment and algal analysis of four different Temple Ponds of Kasaragod district of kerala state** submitted by the candidate whose register number is P05AZ22S028026 for partial fulfilment of master of science in Botany of Mangalore university. Which contains the result of bonafide research carried out by the candidate at department of applied botany Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN  
Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.


### CERTIFICATE

This is to certify that this work entitled "**A STUDY ON PHYTOCHEMICAL AND ANTI-OXIDANT PROPERTIES IN *Ficus carica* L. AND *Artocarpus hirsutus* Lam.**" submitted by P05AZ22S028027, in partial fulfillment for degree of master of science in Botany of Mangalore university, contains the result of bonafide research carried out by the candidate at department of applied botany Mangalore university. No part of this work has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN  
11.07.24  
Department of Applied Botany,  
Mangalore University  
Mangalagangothri - 574 199, D.K.


## CERTIFICATE

This is to certify that this work entitled "**PHYTOCHEMICAL SCREENING, ANTIOXIDANT AND ANTIMICROBIAL ACTIVITIES OF FLOWER AND LEAF EXTRACTS OF *Mammea suriga* (Buch. -Ham. Ex Roxb.) Kostrem**" submitted by P05AZ22S028028, in partial fulfilment for degree of master of science in Botany of Mangalore university, contains the result of bonafide research carried out by them at department of applied botany Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree of diploma. All sources of help received by them during the course of this work have been fully acknowledged.

  
**Chairman**  
Chairman  
Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.

## CERTIFICATE

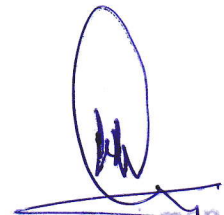
This is to certify that this work entitled "PHYTOCHEMICAL SCREENING, ANTIFUNGAL AND ANTIMICROBIAL ACTIVITIES OF *Anacardium occidentale* L. LEAVES " In partial fulfillment for degree of master of science in Botany of Mangalore University, contains the result of bonafide research carried out by her at Department of Applied Botany, Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree of diploma. All sources of help received by her during the course of this work have been fully acknowledged.

  
Chairman  
11.07.24  
Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.



## CERTIFICATE

This is to certify that this work entitled "A Study on Phytochemical Analysis and Anti-oxidant properties and growth of commercially important seeds in the leaf extracts of *Hopea ponga* (D.) Mabb" submitted by candidate with register number P05AZ22S028030 in partial fulfillment for degree of Master of Science in Botany of Mangalore University, contains the result of bonafide research carried out by the candidate at Department of Applied Botany of Mangalore University. No part of this has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.



CHAIRMAN

Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.

## CERTIFICATE

Certified that this is the record of project work titled "**SUBSTRATE EVALUATION FOR THE QUALITY, PRODUCTION AND GROWTH OF ELM OYSTER MUSHROOM (*Hypsizygus ulmarius*)**" submitted by candidate of Reg no. PO5AZ22S028031 in partial fulfilment for degree of Master of science in botany of Mangalore university, contains the result of bonafied research carried out by the candidate at Department of Applied Botany, Mangalore university.

  
CHAIRMAN

Chairman  
Department of Applied Botany  
Mangalore University  
Mangalagangothri - 574 199, D.K.

## CERTIFICATE

This is to certify that this work entitled A STUDY ON THE EFFECT OF UREA FERTILIZER APPLICATION ON NODULATION IN LEGUMES OF (*Vigna unguiculate*(L) walp) submitted by the candidate whose register number is P05AZ22S028032 for partial fulfilment of master of science in Botany of Mangalore university. Which contains the result of bonafide research carried out by the candidate at department of applied botany Mangalore university, under my supervision and guidance. No part of this has been submitted to any other university for awarding any other degree or diploma. All sources of help received by the candidate during the course of this work have been fully acknowledged.

  
CHAIRMAN

11.07.24  
Chairman

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Mangalore University  
Mangalagangothri-574 199, D.K.