


DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P. VEMBALLUR



CERTIFICATE

This is to certify that the project report entitled '**Microscopic characterisation of some commonly available *Vitex sp.* of Kerala**' Submitted by **Ms. Afitha T H** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College in the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

Shemi C B   
Supervising Teacher

Head of the Department



  
Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thirissur Dt.  
Kerala - 680 671

Examiners:

1.....

2.....

RESEARCH AND PG DEPARTMENT OF BOTANY

M.E.S ASMABI COLLEGE, P. VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled 'POPULATION AND PHYTOCHEMICAL STUDIES ON THE THREATENDED TREE *CRYPTOCARYA LAWSONII* GAMBLE (LAURACEAE) ENDEMIC TO SOUTHERN WESTERN GHATS' Submitted by **Aparna Pushpan**, in partial fulfillment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College, P. Vemballur, Thrissur affiliated to the University of Calicut is a Bonafede work carried out by her during the fourth semester of the course.

  
**Dr. K.H. Amitha Bachan**

Supervising Teacher

Dr. Amitha Bachan K. H.  
Assistant Professor & Research Guide  
Research & PG Department of Botany,  
M.E.S. Asmabi College, P.Vemballur,  
Kudungalur, Thrissur-680671, Kerala-India

**Examiners:**

1.....

2.....

**Dr. T.P Girija** 

Head of the department

Head of Department  
Research & PG Department of Botany,  
M.E.S. Asmabi College,  
P. Vemballur, Thrissur Dt  
Kerala - 680 671



DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P. VEMBALLUR



CERTIFICATE

This is to certify that the project report entitled '*Pre-sowing seed treatments for improving seed germination and seedling growth of Mimusops elengi L.*' submitted by **ARYA DEVADAS M.** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College in the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

Dr. Jisha K. C.

Supervising Teacher

Dr. JISHA K. C., MPhil PhD NL  
Assistant Professor  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671

Dr. Girija T. P.

Head of the Department of Botany

Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671



**Examiners:**

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DEPARTMENT OF BOTANY

M.E.S ASMABI COLLEGE, P. VEMBALLUR



CERTIFICATE

This is to certify that the project report entitled **Pharmacognostic characterization of the Source Plants of Arrow Root (Koova) from Kerala** Submitted **ARYA SATHYAN** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College in the University of Calicut is a bona fide work carried out by her during the fourth semester of the course.

SHEMI CB  
Supervising Teacher

Head of the Department of Botany

Examiners:

1.....

2.....



Head of Department  
Research & PG Dept. of Botany  
M.E.S. Asmabi College  
P. Vemballur, Thussur Dt.  
Kerala - 686 071

DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P. VEMBALLUR



CERTIFICATE

This is to certify that the project report entitled '*Development of fruit enriched rice based probiotic yogurt with snapmelon (Cucumismelo var.momordicaDuthie & Fuller)*' submitted by **HADIYA E.A.** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College in the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

**Dr. Jisha, K. C.**

Supervising Teacher

**Dr. JISHA K. C.,** MPhil, PhD, NET  
Assistant Professor  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671

Head of the Department of Botany

Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671



**Examiners:**

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RESEARCH AND PG DEPARTMENT OF BOTANY  
M.ES ASMABI COLLEGE, P.VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled "Pytochemical screening, antibacterial and antioxidant activity of flower and seed extract of *GALPHIMIA GRACILIS* Bartl. against *ESCHERICHIA COLI* "submitted by LEKHA KR (Reg. No AIAVMBT008), in partial fulfillment for the Degree of Master of Science in Botany of M.E.S Asmabi College, P. Vemballur, Thrissur, affiliated to University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

Dr. GIRIJA. T. P.   
Assistant Professor & Research Guide  
Research & P.G Department of Botany  
MES Asmabi College, P.Vemballur

Dr. Girija T. P.  
P. Vemballur, Thrissur-680671, Kerala-India

Supervising teacher

Head of the Department of botany

  
Dr. Girija T. P

Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College,  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671

Examiners

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**DEPARTMENT OF BOTANY**

**M.E.S ASMABI COLLEGE, P. VEMBALLUR**



**CERTIFICATE**

This is to certify that the project report entitled '**Seed priming for NaCl stress tolerance in *Capsicum annum L.***' Submitted by **NIKITHA N S.** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S Asmabi College in the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

**Dr Jisha, K. C.**

**Supervising Teacher**

**Dr. JISHA K. C., MPhil, PhD, MEd**  
Assistant Professor  
Research & PG Dept of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671

**Dr. Girija T.P.**

**Head of the Department of Botany**



Head of Department  
Research & PG Dept of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 680 671

**Examiners:**

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RESEARCH AND PG DEPARTMENT OF BOTANY  
MES ASMABI COLLEGE, P VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled '**Comparative Analysis of Morphological and Anatomical Characteristics of Selected Plant Species in Industrial Areas of Kanjikode, Kerala**' submitted by Ms. PADMAJA VEENA V. (AIAVMBT010), in partial fulfillment for Degree of Master of Science in Botany of the M.E.S Asmabi College, P.Vemballur, under the University Calicut is a bonafide work carried out by her under my guidance and supervision during period 2022-2023 and that no part thereof has been submitted for the award of any other degree.

  
Nazeema M. K.  
Supervising teacher

  
Dr. Girija T. P.  
Head of The Department

Examiners:

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Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College  
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POST GRADUATE AND RESEARCH DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P.VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled “ *Ecology and Diversity of Mangrove Associated Cyanobacteria of Thrissur District, Kerala, India*” submitted by RAIHANATH P.B in partial fulfilment for the degree of Master of Science in Botany of M.E.S Asmabi College, P. Vemballur, Thrissur affiliated to University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

SHAHEEDHA T.M

Supervising Teacher

Dr. GIRIJA T.P

Head of the Department

Examiners

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Head of Department  
Research & PG Dept. of Botany  
MES Asmabi College  
P. Vemballur, Thrissur Dt.  
Kerala - 660 671


RESEARCH AND PG DEPARTMENT OF BOTANY  
MES ASMABI COLLEGE, P VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled 'Assessment of Phytotoxic Effects and Accumulation Capacity of Cadmium and Lead in *Calotropis gigantea* (L.) W.T.Aiton' submitted by Ms. RANIYA K.P (AIAVMBT012), in partial fulfillment for Degree of Master of Science in Botany of the M.E.S Asmabi College, P.Vemballur, under the University Calicut is a bonafide work carried out by her under my guidance and supervision during period 2022-2023 and that no part thereof has been submitted for the award of any other degree.

  
Nazeema M. K.  
Supervising teacher

  
Dr. Girija T. P.  
Head of The Department

Examiners:

1).....

2).....



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**RESEARCH & PG DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P. VEMBALLUR**



**CERTIFICATE**

This is to certify that the dissertation entitled "RIPARIAN SPECIES COMPOSITION AND STREAM BANK STABILITY: A CASE STUDY ON KARUVANNUR RIVER" submitted by RESHMA P., in partial fulfilment for the degree of Master of Science in Botany of M. E. S. Asmabi College, affiliated to the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

  
**Dr. K.H. Amitha** **Bachan K. H.**  
Assistant Professor & Research Guide  
Supervising Teacher  
Research & PG Department of Botany  
MES Asmabi College, P.Vemballur  
Kodungallur, Thrissur-680671, Kerala-India

  
**Dr. T.P. GIRIJA**  
Head of the Department of Botany

Head of Department  
Research & PG Dept. of Botany  
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P. Vemballur, Thrissur Dt.  
Kerala - 680 671

**Examiners:**

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RESEARCH AND PG DEPARTMENT OF BOTANY  
MES ASMABI COLLEGE, P VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled 'Assessing the Impact of Pollution on Floristic Diversity in Industrial Areas of Kanjikode, Kerala' submitted by Ms. SHAHINA A.S (A1AVMBT014), in partial fulfillment for Degree of Master of Science in Botany of the M.E.S Asmabi College, P.Vemballur, under the University Calicut is a bonafide work carried out by her under my guidance and supervision during period 2022-2023 and that no part thereof has been submitted for the award of any other degree.

  
Nazeema M. K.  
Supervising teacher

  
Dr. Girija T. P.  
Head of The Department

Examiners:

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2).....




Head of Department  
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Kerala - 680 671


RESEARCH AND PG DEPARTMENT OF BOTANY  
MES ASMABI COLLEGE, P VEMBALLUR



CERTIFICATE

This is to certify that the dissertation entitled 'A Comparative Anatomical Study on Abiotic Stress and Assessment of Lead and Cadmium Toxicity on Seed Germination in *Amaranthus spinosus* L.' submitted by Ms. SHERIN SHANA T. (AIAVMBT015), in partial fulfillment for Degree of Master of Science in Botany of the M.E.S Asmabi College, P.Vemballur, under the University Calicut is a bonafide work carried out by her under my guidance and supervision during period 2022-2023 and that no part thereof has been submitted for the award of any other degree.

  
Nazeema M. K.  
Supervising teacher

  
Dr. Girija T. P.  
Head of The Department



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Examiners:


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- 2).....

DEPARTMENT OF BOTANY  
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CERTIFICATE

This is to certify that the project report entitled '**PHYTOCHEMICAL ANALYSIS OF *Musa x paradisiaca* L. (ABB) 'Karpura valli' SEEDS**' Submitted by **Zulfa Minna T** in partial fulfilment for the Degree of **Master of Science in Botany** of M.E.S. Asmabi College in the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

  
Dr. GIRIJA  
Assistant Professor  
Research & P.G Department  
M.E.S Asmabi College, P.Vembailur  
Kodungallur, Thrissur-680671, Kerala-India  
Supervising Teacher

Head of the Department



Examiners:

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**RESEARCH & PG DEPARTMENT OF BOTANY  
M.E.S ASMABI COLLEGE, P. VEMBALLUR**



**CERTIFICATE**

This is to certify that the dissertation entitled "**PTERIDOPHYTE FLORA OF BRAHMAGIRI HILLS, WAYANAD, KERALA**" submitted by **BAIJU K.S.**, in partial fulfilment for the degree of **Master of Science in Botany** of M. E. S. Asmabi College, affiliated to the University of Calicut is a bonafide work carried out by her during the fourth semester of the course.

  
**Dr. K.H. Amitha Bachan**

Supervising Teacher  
**Dr. Amitha Bachan, K. H.**  
Assistant Professor & Research Guide  
Research & P.G Department of Botany  
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Kodungallur, Thrissur-680671, Kerala-India

**Dr. T.P. Girija**

  
Head of the Department of Botany

Head of Department  
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**Examiners:**

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