

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	Head of the Department
Supervising Teacher	Head of Department Research & PG Dept of Botany MES Asmabi College P Vermallur, Thissur Dt. Kerala - 660 671
Examiners:	Harry Connection
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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 Bachar	Dr.	K.F	L.	Ami	tha	Bachar
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Supervising Teacher

Dr. Amitha Bachan, K. H.

Examiners: College, P.Vember of Thresur-680671, Kerala-India

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Dr. T.P Girija

Head of the department



Hend of Consister of Research of Section 1997 March of Section 1997 P Verince of Consister Of Kerala - 680 671



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.

Dr. Girija T. P.

Supervising Teacher

Head of the Department of Botany

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



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Exam	iners:
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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:	Head of Department Research & PG Dept of Sotany MES Asmabi College P. Vembaliur, Thessur Dt.
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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.

Lea	- X.
Dr.Jisha, K. C.	A Court
Supervising Teacher	Head of the Department of Botany
Dr. JISHA K. C., MPhill, PhD, NET Assistant Professor	Weed of December 1

Research & PG Dept of Botany

MES Asmaticologe
P. Vemballur, missur Dt.

Kerala - 680 671

Examiners:

Head of Department
Research & PG Dept of Botan

MES Asmabi College
P. Vemballur, Thrissur Dt.

Kerala - 680 671

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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 AlaVMBT008), 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. Girijao Turgallur, Thrissur-680671, Kerala-India

Supervising teacher

Head of the Department of botany

Examiners

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Head of Department Research & PG Pent of Botany MEC Asmat College P. Vembaliur Thissar Dt Kerala + 680 671

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 annuum 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.

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Dr Jisha, K. C.

Supervising Teacher

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

Exam	iners:	
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Dr. Girija T.P.

Head of the Department of Botany



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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

Head of Department Research & PG Dept of Botany MES Asmabl Coffege P. Vemballur, Trinssur Dt Kerala - 680 671

Examiners:

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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

Dr. GIRIJA T.P

Supervising Teacher

Head of the Department

Examiners

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Head of Department Research & PG Dept. of Botany MES Asmata College P. Vembailur, Thissur Dt. Kerala - 680 671

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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:

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P. Vemballa Kerala



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.

A THE	
Dr. K.H. Amitha Bachana Bachan, K. H.	Dr. T.P. GIRIJA (12)
Assistant Professor & Research Guide Supervising Teacherren & P.G Department of Botany MES Asmabi College, P.Vernballur	Head of the Department of Botany
Kodungallur, Thrissur-680671, Kerala-India Examiners:	Head of Department Research & PG Dept of Bo
	MES Asmabi College P. Vembaltur, Thrissur Di Kerala - 680 671

2.....



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 (APAVMBT014), 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.

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Nazeema M. K.	Dr. Girija T. P.
Supervising teacher	Head of The Departmen

Examiners:	MICHAELE AND	Head of Department Research & PG Dept. of Botar MES Asmabi College P. Vemballur, Thrissur Dt.
1)	o ma	Kerala - 680 671
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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

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

Examiners:

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2).....



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.

15 u 0011 u 11	Dr. GIRLIA	
Dr.Girija	Research & P.G Depart. MEPAsmabi College, P Vembailur Kodungállur, Thrissur-680671,Kerala-India	Head of the Department
Supervisin	g Teacher	Head of Dipartment ANTICH AN
Examine	rs:	203 000
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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
MES Asmabi College, P.Vemballur
Kodungallur, Thrissur-680671,Kerala-India

Examiners:

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Dr. T.P. Girija Head of the Department of Botany

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

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