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MSc ENVIRONMENTAL SCIENCE

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CERTIFICATE

Dr. KALADEVI V

Assistant Professor

PG Department of Environmental Science

St. John's College, Anchal

This is to certify that “**EFFECT OF HEAVY METALS ON DIFFERENT TYPES OF COMPOST AMENDED SOIL SAMPLES AND THE MORPHOMETRIC CHARACTERISTICS OF *Abelmoschus esculentus***” is an authentic record of research work done by Ms. **AMMU S KRISHNA.**, REG NO. **61521138001** under my supervision and guidance in the Department of Environmental Science, St. John's College, Anchal, and that no part thereof has been presented for any other degree, diploma of associateship, fellowship, or other similar title or recognition in any University.

Counter Signed by:



Dr. Kaladevi V

(Head of the Department)
Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
St. John's College, Anchal



(Supervising Teacher)

Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
St. John's College, Anchal

CERTIFICATE

Dr. Brilliant Rajan

Assistant Professor

PG Department of Environmental Science

St. John's College, Anchal

This is to certify that “**ANALYSIS OF SOIL NUTRIENTS IN SELECTED AGRO ECOSYSTEM OF SOUTHERN WESTERN GHATS**” is an authentic record of research work done by Ms. **ANCY.V.S**, REG NO. **61521138002** under my supervision and guidance in the Department of Environmental Science, St. John's College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by:

Dr. Kaladevi ✓



(Head of the Department)



Dr. Brilliant Rajan
(Supervising Teacher)

Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
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CERTIFICATE

Dr. KALA DEVI ✓

Assistant Professor

PG Department of Environmental Science

St. John`s College, Anchal

This is to certify that "THE STUDY OF SOIL CHEMISTRY AND ITS ROLE IN SOIL QUALITY BY USING DIFFERENT TYPES OF ORGANIC AMENDMENTS" is an authentic record of research work done by Ms. ATHULYA THULASI, REG NO. 61521138003 under my supervision and guidance in the Department of Environmental Science, St. John`s College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by:



Dr. Kaladevi ✓

(Head of the Department)

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Assistant Professor & HoD
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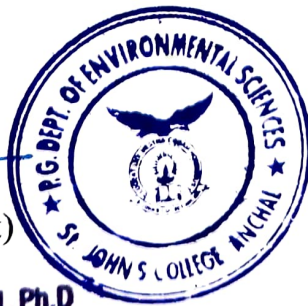
CERTIFICATE

This is to certify that the project entitled “**DIVERSITY OF MALAKKAYAL ESTUARY IN RELATION WITH WATER QUALITY AND PLANT SPECIES IDENTIFICATION**” is an authentic record work carried out by **H.M.THOLHATH, Reg. No.61521138004** in the P.G. Department of Environmental Science, St. Johns College, Anchal and that no part of work has been presented earlier for the award of any other degree or diploma of any other universities. The work is submitted to University of Kerala is based on the result of studies carried out by the candidate, under my supervising Guide.

Counter Signed by:

Kaladevi V
Dr. Kaladevi.V

(Head of the Department)



Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
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Anila George
Dr. Anila George
(Supervising Guide)

Dr. ANILA GEORGE M.Sc, M.Phil, Ph.D.
Assistant Professor
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Dr. Anila George M.Sc. M.Phil. Ph.D.
Assistant Professor



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CERTIFICATE

This is to certify that "HEAVY METAL ABSORPTION AND PHYTOREMEDIATION POTENTIAL OF MANGROVE SPECIES IN AYIRAMTHENGU, KOLLAM, KERALA" an authentic record of research work done by Ms. LINA VARGHESE, REG NO. 61521138005 under my supervision and guidance in the Department of Environmental Science, St. John's College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by 
Dr. KALADEVI . V
(Head of the Department)

Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
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CERTIFICATE

Dr. KALA DEVI

Assistant Professor

PG Department of

Environmental Science

St. John`s College, Anchal

This is to certify that “STUDY ON THE INFLUENCE OF ORGANIC AMENDMENTS ON SOIL NUTRIENT STATUS AND MICROBIAL GROWTH” is an authentic record of research work done by Ms. SRAVYA K.R, REG NO. 61521138006 under my supervision and guidance in the Department of Environmental Science, St. John`s College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by:

Dr. Kaladevi.V

(Head of the Department)

Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
St. John's College, Anchal



(Supervising Teacher)

Dr. KALADEVI V.
Assistant Professor
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CERTIFICATE

Dr. T. ALEXANDER

Assistant Professor

PG Department of Environmental Science

St. John`s College, Anchal

This is to certify that "STATUS OF SOIL NUTRIENTS WITH SPECIAL REFERENCE TO THE HEAVY METALS IN THE RIPARIAN ZONE OF VAMANAPURAM RIVER AT VAMANAPURAM PANCHAYATH", an authentic record of research work done by Ms. **SRUTHY KRISHNA M.R, REG NO. 61521138007** under my supervision and guidance in the Department of Environmental Science, St. John`s College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by:



Dr. KALA DEVI V

(Head of the Dept. of Environmental Science, B.Ed, Mphil, Ph.D)
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
St. John's College, Anchal



Dr. T ALEXANDER
(Supervising Teacher)

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Dr. Brilliant Rajan

Assistant Professor

PG Department of Environmental Science

St. John's College, Anchal

This is to certify that “ANALYSIS OF ANTIBACTERIAL ACTIVITY OF SELECTED MEDICINAL PLANT EXTRACTS WITH POTENTIAL STRAINS OF PATHOGENIC BACTERIA”, an authentic record of research work done by Ms. SUMAYYA J, REG NO. 61521138008 under my supervision and guidance in the Department of Environmental Science, St. John's College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in any University.

Counter Signed by:

Dr. Kaladevi V



Dr. Brilliant Rajan



Dr. KALADEVI V M.Sc, B.Ed, Mphil, Ph.D
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This is to certify that "HEAVY METAL ANALYSIS OF SOIL AND CARDAMOM BOLT OFUDUMBANCHOLA TALUK IDUKKI DISTRICT, KERALA" an authentic record of research work done by Ms. TREESA SCARIA, REG NO. 61521138009 under my supervision and guidance in the Department of Environmental Science, St. John's College, Anchal and that no part thereof has been presented for any other degree, diploma of associateship, fellowship or other similar title or recognition in anyUniversity.

Counter Signed by:

Dr. KALADEVI . V

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CERTIFICATE

Dr. T. ALEXANDER

Assistant Professor

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This is to certify that the project entitled "**STUDY OF WATER QUALITY AND VEGETATION PATTERN OF ANCHAL WATERSHED SYSTEM USING GIS**" is an authentic record work carried out by **VIJIL K A NAIR, Reg No.61521138010** in the P.G. Department of Environmental Science, St. Johns College, Anchal and that no part of work has been presented earlier for the award of any other degree or diploma of any other universities. The work is submitted to University of Kerala is based on the result of studies carried out by the candidate, under my supervision and guidance.

Counter Signed by:

Dr. Kaladevi.V

Dr. Kaladevi.V, M.Sc., B.Ed., M.Phil., Ph.D
Assistant Professor & HoD
PG & Research Dept. of Environmental Sciences
St. John's College, Anchal


Dr. T. ALEXANDER

(Supervising Guide)