

MES ASMABI COLLEGE, P. VEMBALLUR RESEARCH AND PG DEPARTMENT OF BOTANY, CEtC OF WESTERN GHATS HORNBILL FOUNDATION CERTIFICATE COURSE IN GEOINFORMATICS AND MAPPING FOR NATURAL RESOURCE MANAGEMENT

2023 -2024

Details of the Programme

Department : Research and PG Department of Botany

Collaborating Cell : CEtC of Western Ghats Hornbill Foundation

Name of the Course : Geoinformatics and Mapping for Natural Resource Management

Course Code : ASCEP 16

Coordinator : Dr. Amitha Bachan K.H

9497627870, amithabmes@gmail.com

Joint Coordinator : Dr. Girija T.P

Head of the Department : Dr. Girija T.P

Maximum No of Students : 16

Duration of the Course : 31 hrs

Level : UG/PG

Teaching Methodology : Direct method, Group discussion

Teaching aids : Ppt, Videos

Certificate course in Geoinformatics and Mapping for Natural Resource Management Conducted by Research Department of Botany, MES Asmabi College and CEtC of Western Ghats Hornbill Foundation

2023 -2024

SI No	Name	Course	Signature
1	Fitha.T.M	III BSc Botany	Fither
2	Fasna.K.M	III BSc Botany	Jame -
3	Mubeena.P.N	III BSc Botany	Muline.
4	Irfana Parvin.C.A	III BSc Botany	Interes
5	Karthika.K.B	III BSc Botany	Kailhela.
6	Hima.E.P	II MSc Botany	Hims.
7	Malavika.M.Nair	II MSc Botany	Motarities.
8	Athulya.O.M	II MSc Botany	Alhulyle
9	Sruthi.K	II MSc Botany	lenthe:
10	Swathi.R.K	II MSc Botany	Tutter.
11	Akshay.K.P	I MSc Botany	at :
12	Husna Fathima.C.P	I MSc Botany	Hum.
13	Safna.K.T	I MSc Botany	Sofre .
14	Shahana.K.K	I MSc Botany	Shahane.
15	Sharmila Sheri.K	I MSc Botany	Davila.
16	Thahseem Nujum.T.S	I MSc Botany	Thatreens.

A Line

CCUC - WOOds

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

PRINCIPAL
M.E.S. ASMABI COLLEGE,
P.G.P. VEMBALLUR,
KODUNGALLUR - 680 671



Research & PG Department of Botany M.E.S Asmabi college, P. Vemballur Thrissur, Kerala- 680671



CERTIFICATE



This is to certify that Mr/Ms **FITHA. T. M.** has completed the certificate course....

......GEOINFORMATICS AND MAPPING FOR NATURAL RESOURCE MANAGEMENT....of 31 hrs duration conducted by Research& PG Department of Botany, CEtC centre of Hornbill Foundation M.E.S Asmabi College, P.Vemballur, Thrissur, Kerala-680671 during the academic year 2023-24.

He/She has secured ... A.. Grade.

P.Vem ballur

Dr. Girija T.P. H o D

Dr. Amitha Bachan Coordinator Dr. A. Biju Principal

MES ASMABI COLLEGE, P. VEMBALLUR RESEARCH AND PG DEPARTMENT OF BOTANY, CEtC OF WESTERN GHATS HORNBILL FOUNDATION CERTIFICATE COURSE IN GEOINFORMATICS AND MAPPING FOR NATURAL RESOURCE MANAGEMENT

2023 -2024

CURRICULUM AND EVALUATION PROCEDURE

Department : Research and PG Department of Botany

Collaborating Cell : CEtC of Western Ghats Hornbill Foundation

Name of the Course : Geoinformatics and Mapping for Natural Resource Management

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CURRICULAM

Objectives:

- To carry out inter and multidisciplinary research and studies on issues related to Geo-information.
- 2. Provide efficient means for data distribution and handling.
- Complex analysis/queries involving geographical reference data to generate new information.

Module I

Introduction to GIS & Applications

- What is GIS
- o GIS Concepts
- Spatial Data Concepts
- GIS Applications in the real -world scenarios

(6 Hours)

Module II

Overview of open source and proprietary GIS software

- o Introduction to GIS software
- o Open Source vs Proprietary GIS software
- o Overview of GIS Products (ESRI, QGIS)
- Capabilities of GIS tools in the leading software's

(7 Hours)

Module III

Utilising Spatial technology for Natural resources

- Spatial analytical capabilities used by ecologists and conservation biologists.
- o Introduction to natural resource mapping, monitoring and modelling
- Latest GIS technology trends in Conservation GIS

(9 Hours)

Module IV

Spatial Data Model Creation

- o GPS survey
- Georeferencing of Maps
- Digitisation and Creation of attribute table of Species samples
- Visual interpretation of Satellite imagery

(9 Hours)

SOFTWARE USED

Quantum GIS (QGIS 3.22)

EVALUATION PROCEDURE

- Model examinations (Theory as well as practicals)
- Weekly open source software based practical assessment

Dr. Amitha Research Guide

Dr. Amitha Research Guide

Associate & Property College (March of Botany)

Research Guide

Associate Research Guide

Research From From (March of Botany)

Research Research Guide

Research From (March of Botany)

Research Research Guide

Research

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PRINCIPAL

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KODUNGALLUR - 680 67

MES ASMABI COLLEGE, P. VEMBALLUR RESEARCH AND PG DEPARTMENT OF BOTANY, CEtC OF WESTERN GHATS HORNBILL FOUNDATION ASCEP 16 - GEOINFORMATICS AND MAPPING FOR NATURAL RESOURCE MANAGEMENT 2023 -2024

Time:1 Hrs.

Total Marks: 20

Section A (Each question carries 2 Marks)

- 1. What is GIS
- 2. Give an account on Spatial Data Concepts
- 3. Name any two GIS tools
- 4. Write any 4 applications of GIS
- 5. What ae the major criteria used in natural resource mapping

Section B (Each question carries 5 Marks)

- 6. What are the latest GIS technologies
- 7. Write an essay on GIS software.

Assistant Professor & Research Guide Research & P.G Department of Botany Asmabi College, P.Vemballur Kodungallur, Thrissur-680671,Kerala-India

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Research & PG Dept. of Botany
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ASMABI COLLEGE.

P.O.P. VEMBALLUR.

ASCEP 16

Geoinformatics and Mapping for Natural Resource Management 2023 -2024

Result

SI No	Name	Course	Marks (20)
1	Fitha.T.M	III BSc Botany	18
2	Fasna.K.M	III BSc Botany	18
3	Mubeena.P.N	III BSc Botany	19
4	Irfana Parvin.C.A	III BSc Botany	18
5	Karthika.K.B	III BSc Botany	17
6	Hima.E.P	II MSc Botany	20
7	Malavika.M.Nair	II MSc Botany	18
8	Athulya.O.M	II MSc Botany	19
9	Sruthi.K	II MSc Botany	18
10	Swathi.R.K	II MSc Botany	17
11	Akshay.K.P	I MSc Botany	20
12	Husna Fathima.C.P	I MSc Botany	20
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14	Shahana.K.K	I MSc Botany	19
15	Sharmila Sheri.K	I MSc Botany	18
16	Thahseem Nujum.T.S	I MSc Botany	17

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

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REPORT AND COURSE OUTCOME

Department

: Research and PG Department of Botany

Collaborating Cell

: CEtC of Western Ghats Hornbill Foundation

Coordinator

: Dr. Amitha Bachan K.H

Joint Coordinator

: Dr. Girija T.P

No of Students enrolled

: 16

No of Students Completed

: 16

Year

: 2023 -2024

Date of evaluation

: 20-02-2024

No of Students qualified

: 16

No of Certificates issued

: 16

COURSE OUTCOME

- It provides awareness to the participants on Geospatial technologies and equip them with the necessary know -now for handling and managing GIS related tasks in biodiversity conservation.
- It will bring a pool of spatial knowledge to the student community
- It can help in conducting GIS projects.

Dr.Amitha Bachan.K.H

ordinator

ordinator

Anith Bachan, K. H.

Professor & Research Guide arch & P.G Department of Botany

MES Asmabi College, P.Vemballur Kodungallur, Thrissur-680671, Kerala-India Dr.Girija.T.P

HoD

Head of Department Research & PG Dept. of Botany MES Asmabi College P, Vemballur, Thrissur Dt. Kerala - 680 671 PRINCIPAL
Dr.Prof.A.Biju M.E.S. ASMABI COLLEGE,
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Principal

