ENVIRONMENTAL STUDIES - TECHNOLOGIES IN DIGITAL AGRICULTURE

A Project submitted to Fatima College (Autonomous), Madurai-18.

In partial fulfilment of the requirements of the award of the Degree of BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

Ms.K.Aarthi Sreetha	(2021IT01)
Ms. M.Aruna	(2021IT07)
Ms. J.J.Christina Nivetha	(2021IT10)
Ms. A.Infant Namitha	(2021IT14)
Ms. M.G.Shri Abishini	(2021IT34)
Ms. R.Supraja	(2021IT39)
Ms. K.Thanika Devi	(2021IT43)

Under the Guidance of

Dr. N. Kalaichelvi, MCA, M. Phil, Ph. D

Assistant Professor

Department of Information Technology



Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (Cycle-IV)

Maryland, Madurai – 625018



Re-Accredited with 'A++' by NAAC (Cycle - IV)
Mary Land, Madurai

To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of DR.N.KALAICHELVI, Assistant Professor of DEPARTMENT OF INFORMATION TECHNOLOGY for the Academic Year 2022-2023.

	Dec No	Name of the Students	Title of the Project
S. No.	Reg. No.		
1.	2021IT01	K. Aarthi Sreetha	
2.	2021IT07	M.Aruna	ENVIRONMENTAL
	barris 2	J. J.Christina Nivetha	STUDIES- TECHNOLOGIES IN
3.	2021IT10		DIGITAL
4.	2021IT14	A. Infant Namitha	AGRICULTURE
5	2021IT34	M.G.Shri Abishini	
5.			
6.	2021IT39	R. Supraja	
7.	2021IT43	K.Thanika Devi	

Project Guide

Co-ordinator,
Environmental Studies

This is to certify that this project entitled "Environmental Studies - Technologies In Digital Agriculture" submitted by Ms. K. Aarthi Sreetha, Ms. M.Aruna, Ms. J. J.Christina Nivetha, Ms. A. Infant Namitha, Ms. M.G.Shri Abishini, Ms. R. Supraja, Ms. K.Thanika Devi, for the degree of Bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the Department of information Technology, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree.

Course Teacher

Signature of the Head of the Department

Place: Madurai

Date: 18 11 2022

We do hereby declare that this work has been originally carried out by under the guidance and supervision of Dr. N. Kalaichelvi, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: |8 | 11 | 2022

K. Acothe excessor.
Ms. K. Aarthi Sreetha (2021IT01)

M. Aruna (2021IT07)

Christina Nivetha (2021IT10)

A. Infant Namitha (2021IT14)

Ms. M.G.Shri Abishini(2021IT34)

R. Supraja (2021IT39)

Ms. K. Thanika Devi(2021IT43)

ENVIRONMENTAL STUDIES - ANALYSIS OF CARBON FOOTPRINT AND CLIMATE CHANGE

A Project submitted to Fatima College (Autonomous), Madurai -18

In partial fulfillment of the requirements of the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

Ms. J. AKCHAYA	(2021IT02)
Ms. N. ANISHA	(2021IT05)
Ms. K. BOOMA	(2021IT08)
Ms. D. DIVYA DHARSHINI	(2021IT12)
Ms. S. PARI VARTHINI	(2021IT24)
Ms. V. SANKARESWARI	(2021IT27)
Ms. S. SURUTHIKESH	(2021IT41)

Under the guidance of

Dr. N. KALAICHELVI, MCA, M.Phil, Ph. D

Assistant professor,

Department of Information Technology



FATIMA COLLEGE (Autonomous)

Re-Accredited with 'A++' Grade by NAAC(Cycle-IV)

Maryland, Madurai-625018, Tamil Nadu



Re-Accredited with 'A++' by NAAC (Cycle - IV)
Mary Land, Madural

To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of Dr. N. Kalaichelvi, Assistant Professor of Department of Information Technology for the Academic Year 2022-2023.

S. No.	Reg. No.	Name of the Students	Title of the Project
1	2021IT02	J.Akchaya	ENVIRONMENTAL
2	2021IT05	N.Anisha	STUDIES -ANALYSIS OF CARBON FOOTPRINT AND
3	2021IT08	K.Booma	CLIMATE CHANGE
4	2021IT12	S.Divya Dharshini	
5	2021IT24	S.Pari Varthini	
6	2021IT27	V.Sankareswari	
7	2021IT41	S.Suruthikesh	

NOON.
Project Guide

Co-Ordinator,
Environmental Studies

This is to certify that this project entitled "Environmental Studies - Analysis of Carbon Footprint and Climate Change" submitted by Ms.J.Akchaya, Ms.N.Anisha, Ms.K.Booma, Ms.S.Divya Dharshini, Ms.S.Pari Varthini, Ms.V.Sankareswari, Ms.S.Suruthikesh for the degree of bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the Post Graduate Department of IT, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree.

Ourse Teacher

Signature of the Head of the Department

Place: Madurai

Date: 18/11/2022

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.N.Kalaichelvi, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 18/11/2022

Ms. J. Akchaya (20211T02)

Ms. N. Anisha (2021IT05)

K. Booma

Ms. K. Booma (2021IT08)

Ms. S. Divya Dharshini (2021IT12)

S. Parivarthini (2021IT24)

V. Sankareswari (2021IT27)

Ms. S. Suruthikesh (2021IT41)

ENVIRONMENTAL STUDIES - IMPACT OF AGRICULTURE ON CLIMATE CHANGE

A Project submitted to Fatima College (Autonomous), Madurai - 18

In Partial Fulfilment of the requirements of the Award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

S. Sherin Aathifa (2021IT33)

T. Sowmiya Sri (2021IT36)

R. Amirtha Varshini (2021IT03)

A. Chithra (2021IT09)

M. Shara Afrin (2021IT47)

R.C. Swathi (2021IT42)

V. Preethi (2021IT26)

Under the Guidance of

Dr.N.Kalaichelvi, MCA, M.Phil, Ph.D

Assistant Professor

Department of Information Technology



Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (Cycle-IV)

Maryland, Madurai - 625018



Re-Accredited with 'A++' by NAAC (Cycle - IV)
Mary Land, Madurai

To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of Dr.N.KALAICHELVI, Assistant Professor of DEPARTMENT OF INFORMATION TECHNOLOGY for the Academic Year 2022-2023.

S. No.	Reg. No.	Name of the Students	Title of the Project
1.	2021IT33	S. Sherin Aathifa	
2.	2021IT36	T. Sowmiya Sri	
3.	2021IT03	R. Amirtha Varshini	ENVIRONMENTAL STUDIES-IMPACT OF
4.	2021IT09	A.Chithra	AGRICULTURE ON CLIMATE CHANGE
5.	2021IT47	M. Shara Afrin	CLIMATE CHANGE
6.	2021IT42	R.C. Swathi	
7.	2021IT26	V. Preethi	

Project Guide

Co-ordinator,
Environmental Studies

This is to certify that this project entitled "Environmental Studies -Impact of Agriculture on Climate Change" submitted by Ms. Sherin Aathifa.S, Ms. Sowmiya Sri.T, Ms. Amirtha Varshini.R, Ms. Chithra.A, Ms. Shara Afrin.M, Ms. Swathi.R.C, Ms. Preethi.V for the degree of bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the department of information Technology, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree.

Course Teacher

Signature of the Head of the Department

Place: Madurai

Date: |8|11|2022

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.N.Kalaichelvi, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 18/11/22.

Ms. Sherin Aathifa .S (2021IT33)

T. Scion J. Ms. Sowmiya Sri .T (2021IT36)

Ms. Amirtha Varshini .R (2021IT03)

A-chettera

Ms. Chithra. A (2021IT09)

Ms. Shara Afrin .M (2021IT47)

Ms. Swathi .R.C (2021IT42)

Ms. Preethi .V (2021IT26)

ENVIRONMENTAL STUDIES - THE EFFECT OF AGRO CHEMICAL ON THE SOIL ENVIRONMENT

A Project submitted to Fatima College (Autonomous), Madurai – 18 In partial fulfilment of the requirements of the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

Ms. S. Angala Esuwari	(2021IT04)
Ms. V. Monika	(2021IT20)
Ms. B.Shanofin Azmi	(2021IT30)
Ms. B. Subha Sri	(2021IT38)
MS. V. Supraja	(2021IT40)
Ms. G. Thirishika	(2021IT44)
Ms. G. Nagakeshika	(2021IT46)

Under the Guidance of

Dr.N.Kalaichelvi, MCA, M.Phil, Ph.D

Assistant Professor

Department of Information Technology



Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (Cycle-IV)

Maryland, Madurai – 625018



Re-Accredited with 'A++' by NAAC (Cycle - IV) Mary Land, Madurai

To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of Dr.N.KALAICHELVI, Assistant Professor of DEPARTMENT OF INFORMATION TECHNOLOGY for the Academic Year 2022-2023.

S. No.	Reg. No.	Name of the Students	Title of the Project
1	2021IT04	S.Angala Esuwari	
2	2021IT20	V.Monika	ENVIRONMENTAL
3	2021IT30	B.Shanofin Azmi	STUDIES-THE EFFECT OF AGRO CHEMICAL IN
4	2021IT38	B.Subha sri	THE SOIL ENVIRONMENT
5	2021IT40	V.Supraja	
6	2021IT44	G.Thirishika	
7	2021IT46	G.Nagakeshika	

Project Guide

Co-ordinator,

Environmental Studies

This is to certify that this project entitled "Environmental Studies - The Effect of Agro Chemical on The Soil Environment" submitted by Ms. S. Angala Esuwari, Ms. V.Monika, Ms. G.Nagakeshika, Ms. B.Subha sri, Ms. V. Supraja, Ms. B. Shanofin Azmi, Ms. G.Thirishika for the degree of bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the Under Graduate Department of IT, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree

Course Teacher

Signature of the Head of the Department

Place: Madurai

Date: 18/11/2022

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.N.Kalaichelvi, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous). Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 18/11/2022

S. Argala Estavari Ms. S. Angala Esuwari (20211T04)

> V. Menika Ms. V. Monika (20211T20)

B. Shanofin Azmi (20211T30)

B. Subla Wi.

Ms. B. Subha sri (2021IT38)

Ms. V. Supraja (2021IT40)

Ms. G. Thirishika (20211T44)

G. Nagakeshika (20211T46)

ENVIRONMENTAL STUDIES - ANALYSIS ON ENERGY USAGE AND CONSERVATION THROUGH TECHNOLOGY

A Project submitted to Fatima College (Autonomous), Madurai - 18

In partial fulfilment of the requirements of the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

Ms.Archana.K	(2021IT06)
Ms.Jenithapriyadharshini.K	(2021IT15)
Ms. Nagalakshmi.K	(2021IT21)
Ms. Sarumathi.S	(2021IT28)
Ms.Soniya.R	(2021IT35)
Ms.Sri Varshini.T N	(2021IT37)
Ms.Viveka.N.R	(2021IT45)

Under the Guidance of

Dr.N.Kalaichelvi, MCA, M.Phil, Ph.D

Assistant Professor

Department of Information Technology



Fatima College (Autonomous)

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Maryland, Madurai – 625018



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Mary Land, Madurai

To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of Dr.N.KALAICHELVI, Assistant Professor of DEPARTMENT OF INFORMATION TECHNOLOGY for the Academic Year 2022-2023.

8. No.	Reg. No.	Name of the Students	Title of the Project
1.	2021IT06	K. Archana	ALK HOLLER
2.	2021IT15	K. Jenithapriyadharshini	ENVIRONMENTAL STUDIES-ANALYSIS ON
3.	2021IT21	K. Nagalakshmi	ENERGY USAAGE AND
4.	2021IT28	S. Sarumathi	CONSERVATION THROUGH
5.	2021IT35	R. Soniya	TECHNOLOGY
6.	2021IT37	T N. Sri Varshini	
7.	2021IT45	N.R. Viveka	

Project Guide

Co-ordinator,
Environmental Studies

This is to certify that this project entitled "Environmental Studies - Analysis On Energy Usage And Conservation Through Technology" submitted by Ms. Archana.K, Ms. Jenithapriyadharshini.K, Ms. Nagalakshmi.K, Ms. Sarumathi.S, Ms. Soniya.R, Ms. Sri Varshini.T N, Ms. Vivekn.N.R, for the degree of Bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the Department of information Technology, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree.

Course Teacher

Signature of the Head of the Department

Place: Madurai

Date: 18/11/2022

We do hereby declare that this work has been originally carried out by under the guidance and supervision of **Dr.N.Kalaichelvi**, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 18/11/2022

k. John . Ms.Archana.K (2021IT06)

K. Jenika priya dharshini.K (2021IT15)

k. Nagalakshmi (2021IT21)

S. Sarumathi.S (2021IT28)

R. Soriya Ms.Soriya.R (20211T35)

Ms.Sri Varshini.T N (20211T37)

Ms. Viveka. N.R (20211T45)

ENVIRONMENTAL STUDIES - BIODIVERSITY LOSS AND ITS IMPACT ON AGRICULTURE

A Project submitted to Fatima College (Autonomous), Madurai - 18

In partial fulfilment of the requirements of the award of the degree of

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Submitted By

Ms.S.Kavisri (2021IT16)

Ms.K.Kreeshma (2021IT19)

Ms.S.Nagammai (2021IT22)

Ms.R.Nivetha (2021IT23)

Ms.A.Poornima (2021IT25)

Ms.P.Shahin Barhana (2021IT29)

Ms.R.Sharumathy (2021IT32)

Under the Guidance of

Dr.N.Kalaichelvi, MCA, M.Phil, Ph.D

Assistant Professor

Department of Information Technology



Fatima College (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (Cycle-IV)

Maryland, Madurai - 625018



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Mary Land, Madurai

· To Whomsoever It May Concern

This is to certify that the following students have completed their student project work under the guidance of Dr.N.Kalaichelvi, Assistant Professor of Department of Information Technology for the Academic Year 2022-2023.

S. No.	Reg.No.	Name of the Students	Title of the Project
1.	20211T16	S. Kavisri	
2.	2021IT19	K. Kreeshma	ENVIRONMENTAL STUDIES- BIODIVERCITY LOSS
3.	2021IT22	S. Nagammai	AND ITS IMPACT ON AGRICULTURE
4.	2021IT23	R. Nivetha	of the Department of
5.	2021IT25	A.Poornima	
6.	2021IT29	P. Shahinbarhana	
7.	2021IT32	R. Sharumathy	

p Teld

Project Guide

Co-ordinator,

Environmental Studies

This is to certify that this project entitled "Environmental Studies - Biodiversity Loss And Its Impact On Agriculture" submitted by Ms. S.Nagammai, Ms.S.Kavisri, Ms.R.Nivetha, Ms.A.Poornima, Ms.K.Kreeshma, Ms.P.Shahinbarhana, Ms.R.Sharumathy for the degree of bachelor of science is based on the result of studies carried out by them under my guidance and supervision in the Post Graduate Department of IT, Fatima college (Autonomous), Madurai-18. This project has not been submitted elsewhere for any other degree.

Course Teacher

Signature of the Head of the Department

Place: Madurai

Date: 18/11/2022

We do hereby declare that this work has been originally carried out by us under the guidance and supervision of Dr.N.Kalaichelvi, Assistant Professor in the Department of Information Technology, Fatima College (Autonomous), Madurai-18 and this work has not been submitted elsewhere for any other degree.

Place: Madurai

Date: 18 11 2022

S. Kavisti

Ms. S. Kavisri(2021IT16)

F. Thurston

Ms. K.Kreeshma(2021IT19)

8, Nagarnere

Ms. S.Nagammai(2021IT22)

R. Nivetha. Ms. R.Nivetha (20211T23)

A. Poornina

Ms. A.Poornima(2021IT25)

P. Shahin Bashana

Ms. P. Shahin Barhana(2021IT29)

Ms. R.Sharumathy(2021IT32)