

Centre for Biotechnology, ECC, Prayagraj

B.Sc. Biotechnology

Sem 5 - Project Topics - 2022-2023

S. No	Roll No	Project Topic
1	273001	Bioremediation of Waste Water
2	273002	Development of Covid Vaccine in India
3	273003	Biodegradable plastics - an alternative over conventional plastics
4	273004	Stem Cell Therapy for Incurable Neudegenerative disorders
5	273005	Development of Chimeric Antibodies
6	273006	Bioremediation of Waste Water
7	273007	Development of Covid Vaccine in India
8	273008	Biodegradable plastics - an alternative over conventional plastics
9	273009	Stem Cell Therapy for Incurable Neudegenerative disorders
10	273010	Development of Chimeric Antibodies
11	273011	Bioremediation of Waste Water
12	273012	Development of Covid Vaccine in India
13	273013	Biodegradable plastics - an alternative over conventional plastics
14	273014	Stem Cell Therapy for Incurable Neudegenerative disorders
15	273015	Development of Chimeric Antibodies
16	273016	Bioremediation of Waste Water
17	273017	Development of Covid Vaccine in India
18	273018	Biodegradable plastics - an alternative over conventional plastics
19	273019	Stem Cell Therapy for Incurable Neudegenerative disorders
20	273020	Development of Chimeric Antibodies
21	273021	Bioremediation of Waste Water
22	273022	Development of Covid Vaccine in India
23	273023	Biodegradable plastics - an alternative over conventional plastics
24	273024	Stem Cell Therapy for Incurable Neudegenerative disorders
25	273025	Development of Chimeric Antibodies
26	273026	Bioremediation of Waste Water
27	273027	Development of Covid Vaccine in India
28	273028	Biodegradable plastics - an alternative over conventional plastics

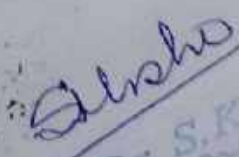
Silsho
Dr. S. K. Mishra

Coordinator
Centre for Biotechnology

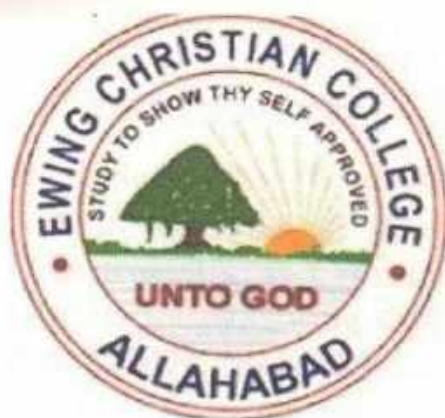
Mishra
Centre for Biotechnology
ECC
EVANG CHRISTIAN COLLEGE
Prayagraj

B.Sc Biotech Sem VI - Project Topic- 2022-23

S. No	Name	Roll No	Sem	Topics	Teacher Incharge
1	Shubhanshi Kulshrestha	273001	6	Role of genetic engineering for producing Genetically Modified Organisms (GMOs).	Mrs Jyoti Pradhan Nigam
2	Abhishek singh	272002	6	Transgenic plants and it's applications in biopharmaceutical products	Er. Abhijeet William Singh
3	Harsh Mishra	272022	6	Transgenic plants	Mrs Jyoti Pradhan Nigam
4	Saumya Pandey	273003	6	Cell signalling pathway	Mr. Arun Pal
5	Taruna pal	273004	6	Role of recombinant DNA technology in medicine and vaccine production	Mrs Jyoti Pradhan Nigam
6	Ajeet Pathak	273005	6	DNA replication and gene expression	Mrs Jyoti Pradhan Nigam
7	Srishti pandey	273006	6	Gene therapy in disease diagnosis	Mr. Arun Pal
8	Nainshi pal	273007	6	Role of recombinant DNA technology in forensic science	Mrs Jyoti Pradhan Nigam
9	Aman Mishra	273008	6	Development of germ free plant and tissue culture	Er. Abhijeet William Singh
10	Neetika Singh	273009	6	Transgenic plants and their impact	Mr. Arun Pal
11	Rishika Srivastav	273010	6	Role of recombinant dna technology in cancer and diabetes treatment	Mrs Jyoti Pradhan Nigam
12	Nitesh krishna srivastav	273011	6	Nanoparticles based drug delivery in cancer therapy	Er. Abhijeet William Singh
13	Vivek Singh	273012	6	Improving crops through genetic engineering- Technological advances and prospects	Mr. Arun Pal
14	Smriti Singh	273013	6	Conceptual evolution of cell signalling	Mrs Jyoti Pradhan Nigam
15	Sudamini Jha	273014	6	Micropropagation Technique for Development of Disease-free sugarcane	Er. Abhijeet William Singh
16	Satyaprakash	273015	6	Yeast Artificial Chromosome (YAC) vector and it's role in Recombinant DNA Technology	Mr. Arun Pal
17	Bodhika Singh	273016	6	DNA sequencing and primer designing	Mrs Jyoti Pradhan Nigam
18	Harsh gupta	273017	6	Carbon Nanotubes in cancer therapy and drug delivery.	Er. Abhijeet William Singh
19	Divya Yadav	273018	6	DNA fingerprinting & its importance in forensic science.	Mr. Arun Pal
20	Vartika pandey	273019	6	Role of human genome sequencing in health and disease	Mrs Jyoti Pradhan Nigam
21	Niharika Tiwari	273020	6	Potential applications of genetic engineered(Transgenic)animals in medical biotechnology & Healthcar	Er. Abhijeet William Singh
22	Richa Tripathi	273021	6	Genetic engineering it's role in agriculture and medicine .	Mr. Arun Pal
23	Kartikey Singh	273023	6	Applications of nanoparticles system in gene delivery and gene therapy	Er. Abhijeet William Singh
24	Sadaf ahmad	273024	6	Transgenic Plants: Problems and It's Solutions	Mr. Arun Pal
25	Prakhar Saraswat	273025	6	Bioinformatics role in drug discovery.	Mrs Jyoti Pradhan Nigam
26	Shreya Singh	273026	6	DNA Fringerprinting	Mrs Jyoti Pradhan Nigam
27	Ananya Srivastava	273027	6	Agrobacterium mediated gene transfer and it's Applications	Mr. Arun Pal
28	Upasna Pandey	273028	6	Bacteriophage-plasmid hybrid vectors designing using recombinant DNA technology	Mrs Jyoti Pradhan Nigam


Dr. S.K. Mishra
 Co-ordinator
 Centre for Biotechnology
 EWING CHRISTIAN COLLEGE
 Prayagraj

**Phytochemical characterization and evaluation of
antioxidant properties of *Bowenia serrulata* (W.Bull)
Chamb. using advanced spectroscopic and
chromatographic techniques**



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

**A dissertation submitted in the partial fulfilment of the requirement for the
award of degree of Master of Science in Botany**

2021-2023

Under the supervision of

Dr. SANJAY KUMAR MISHRA

**(Associate Professor, Department of Botany, Ewing Christian College,
Prayagraj)**

Submitted by

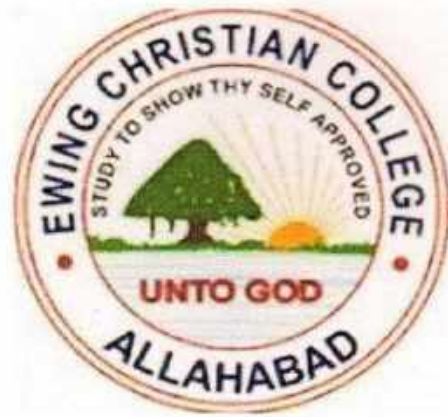
ARISHTA VOHRA

Roll no: 220012

Enrollment No: ECC2159016

**IN DEPTH ANALYSIS OF HISTOCHEMICAL,
PHYTOCHEMICAL AND RADICAL SCAVENGING
ACTIVITY OF SOME MEMBERS OF CYCADACEAE**

(Cycas circinalis and Cycas revoluta)



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

A dissertation submitted in the partial fulfilment of the requirement for the award of
degree of **Master of Science in Botany**

2021-2023

Under the supervision of

Dr. SANJAY KUMAR MISHRA

(Associate Professor, Department of Botany, Ewing Christian College, Prayagraj)

Submitted by

DEEKSHA KESERWANI

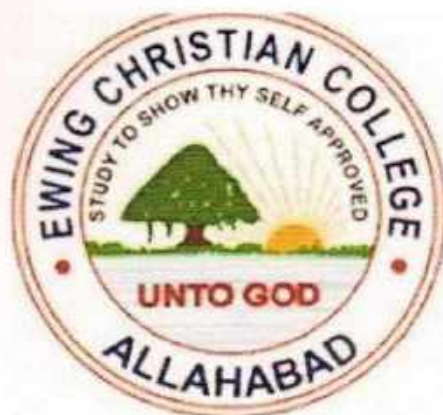
Roll no: 220004

Enrollment No: ECC2159020

**“Histochemical, Phytochemical and in-vitro screening of
antioxidant activity of some selected plants of family
Zamiaceae”**

THESIS

A dissertation submitted in the partial fulfilment of the requirement for the award of
degree of **Master of Science in Botany**



SESSION- 2021-2023

Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

Under the supervision of

Dr. SANJAY KUMAR MISHRA

**(Associate Professor, Department of Botany, Ewing Christian College,
Prayagraj)**

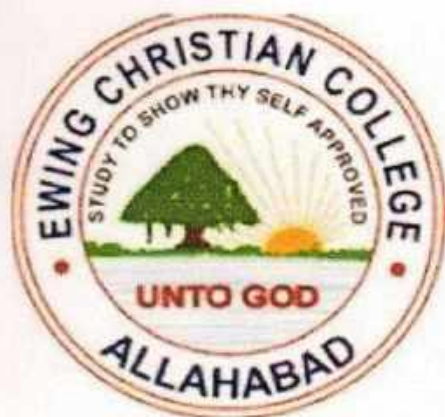
Submitted by

KANUPRIYA

Roll no: 220005

Enrollment No: ECC2159024

"Phytochemical profiling, using FTIR coupled with GC-MS and evaluation of Antioxidant activity of ethanolic extract of *Encephalartos horridus* (Jacquin) Lehmann and *Dioon spinulosum* Dyer ex Eichler leaves"



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

A dissertation submitted in the partial fulfilment of the requirement for the award of degree of Master of Science in Botany

2021-2023

Under the supervision of

Dr. SANJAY KUMAR MISHRA

(Associate Professor, Department of Botany, Ewing Christian College, Prayagraj)

Submitted by

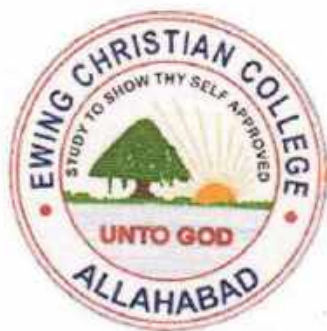
PRACHI MISHRA

Roll no: 220013

Enrollment No: ECC2159009

**“Study of Fossil Gymnosperms Pentoxylales, Bennettitales and
Angiosperm family Oleaceae”**

(THESIS)



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

*A dissertation submitted in the partial fulfillment of the requirement for the award of degree
of*

MASTER OF SCIENCE IN BOTANY

Under the supervision of

Dr. SHONALI CHATURVEDI

(Associate Professor, Department of Botany, Ewing Christian College, Prayagraj)

Submitted by

PRAGYA SINGH

Roll No: 220010

Enrollment No: ECC2159001

Academic Session: 2022-2023

**“Study of Gymnosperms Podocarpaceae, Taxodiaceae,
Cupressaceae and Angiosperm
family Rutaceae”**

(THESIS)



**Department of Botany
EWING CHRISTIAN COLLEGE**

(An Autonomous Constituent College of University of Allahabad)

*A dissertation submitted in the partial fulfillment of the requirement for the award of degree
of*

MASTER OF SCIENCE IN BOTANY

Under the supervision of

Dr. SHONALI CHATURVEDI

(Associate Professor, Department of Botany, Ewing Christian College, Prayagraj)

Submitted by

Mansi Srivastava

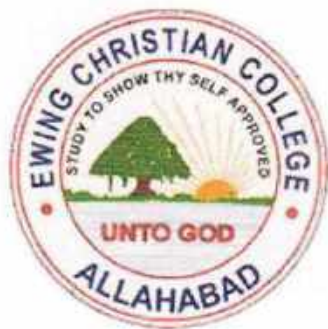
Roll No: 220007

Enrollment No: ECC2159006

Academic Session: 2022-2023

**“Study of Gymnosperms
Araucariaceae, Cephalotaxaceae, Ephedraceae and Angiosperm
family Apocynaceae”**

(THESIS)



**Department of Botany
EWING CHRISTIAN COLLEGE**

(An Autonomous Constituent College of University of Allahabad)

*A dissertation submitted in the partial fulfillment of the requirement for the award of degree
of*

MASTER OF SCIENCE IN BOTANY

Under the supervision of

Dr. SHONALI CHATURVEDI

(Associate Professor, Department of Botany, Ewing Christian College, Prayagraj)

Submitted by

Kumari Sandhya

Roll No: 220009

Enrollment No: ECC2159012

Academic Session: 2022-2023

INVASIVE ALIEN SPECIES OF PRAYAGRAJ DISTRICT

By

POOJA YADAV

Enrollment No-ECC2159014

A Dissertation

Submitted to the department of botany.

EWING CHRISTIAN COLLEGE PRAYAGRAJ

UNIVERSITY OF ALLAHABAD



2022-2023

**In Partial Fulfillment of the Requirement for the Degree
of Master of Science**

Supervised by Prof.Mr. Xavier Kuncheria

**“TAXONOMY AND INTERRELATION OF FLOWERING PLANTS
WHICH HAVE ROLE IN SOCIAL AND RELIGIOUS PURPOSE”**

Dissertation

Submitted in the partial fulfillment of the requirements for the award of

the degree of

MASTER OF SCIENCE IN BOTANY



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous constituent College of University of Allahabad)

SESSION:2022-2023

Under the Guidance of

Mr. Xavier Kuncheria

(Supervisor)

Submitted by

Ankit Kumar Dwivedi

Enroll. no.-ECC2159027

Roll No.- 220006

Comparative analysis of *Clerodendrum splendens* and
Solanum xanthocarpum
DISSERTATION SUBMITTED FOR DEGREE OF M.Sc
BOTANY



Department of Botany

EWING CHRISTIAN COLLEGE

(An Autonomous constituent College of University of Allahabad)

SESSION:2022- 2023

Under the Guidance of Mr. Xavier Kuncheria (Supervisor)

Submitted By Priya Mishra

Roll no. – 220015

Enrollment no. – ECC2159011

Vultures 'Natural Scavengers'
It's negative impact due to decline in their population

THESIS

POST GRADUATE DEPARTMENT OF BOTANY
EWING CHRISTIAN COLLEGE, PRAYAGRAJ, 211003(UP)
(AN AUTONOMOUS CONSTITUENT COLLEGE OF UNIVERSITY OF
ALLAHABAD)



SESSION – 2022-2023

Submitted in partial fulfilment of Requirement for the award of degree of
master's in science in Botany by

Ankur Mishra

ECC2159021

220003

Under supervision of

Dr. Anil Kumar Tewari

Head Department of Botany

Ewing Christian College, Prayagraj

Disaster due to flood in Pakistan (Possible environmental factors responsible for it)



Session -2022-2023

POST GRADUATE

DEPARTMENT OF BOTANY

EWING CHRISTIAN COLLEGE, PRAYAGRAJ -211003 (U.P.)

(An Autonomous Constituent College of Allahabad University)

Thesis

Submitted in partial fulfillment of the required for the award of the degree of

Master of Science in Botany

SUBMITTED BY :

PRIYANKA PANDEY

ENROLLMENT NO. – ECC2159010

SUBMITTED TO:

DR. ANIL KUMAR TEWARI

ASSOCIATE PROFESSOR

HEAD OF DEPARTMENT

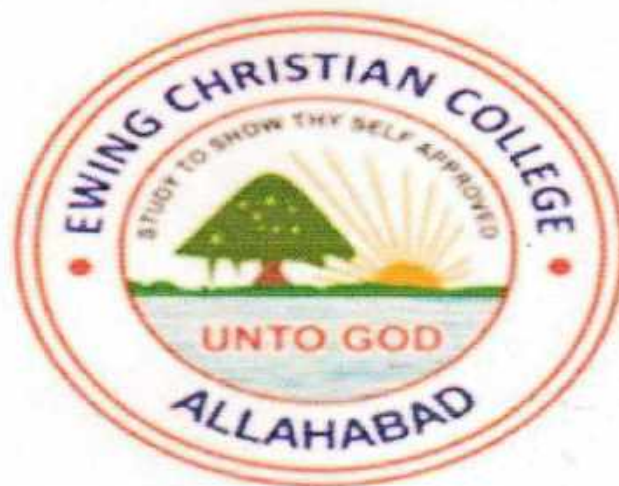
DEPARTMENT OF BOTANY

**POSSIBLE CAUSES OF EARTHQUAKES IN TURKEY AND
ADJOINING AREAS**

Dissertation submitted to

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

**(An Autonomous Constituent P.G. College of University of
Allahabad)**



Submitted by:

OSHEEN ARADHANA WESLEY

MSc. (2022-2023)

Enrollment No.- ECC2159023

Roll No. - 220011

Supervisor:

Dr. ANIL KUMAR TEWARI

Head of Botany Department

Ewing Christian College

“Antibacterial activity of selected Indian spices against enteric pathogens”

THESIS

**Submitted in partial fulfilment of Requirement for the award of degree of
Master of Science in Botany by**

Saumya Mishra



SESSION – 2022-2023

**POST GRADUATE DEPARTMENT OF BOTANY
EWING CHRISTIAN COLLEGE, PRAYAGRAJ- 211003 (U.P.)
(AN AUTONOMOUS CONSTITUENT COLLEGE OF UNIVERSITY OF
ALLAHABAD)**

Enrolment No. - ECC2159022

**MICROBIOLOGICAL QUALITY ASSURANCE OF ICE-CREAM SOLD IN
ALLAHABAD CITY**

THESIS

Submitted in partial fulfilment of the required for the award of

the degree of

Master of Science

In

Botany

By

PRAKRITI SINGH

Enrollment No. – ECC2159007

Under the supervision of

Dr. A.S. Moses



(2023)

POST GRADUATE DEPARTMENT OF BOTANY

EWING CHRISTIAN COLLEGE, PRAYAGRAJ - 211003 (U.P.)

(An Autonomous Constituent College of Allahabad University)

**DETECTION OF ANTAGONISTIC ACTIVITY OF *Enterococcus* spp.
ISOLATED FROM CURD**

THESIS

Submitted in partial fulfilment of the required for the award of

the degree of

Master of Science

In

Botany

By

SHREYA SINGH

Enrolment No. - ECC2159003

Under the supervision of

Dr. A.S. Moses



(2023)

POST GRADUATE DEPARTMENT OF BOTANY

EWING CHRISTIAN COLLEGE, PRAYAGRAJ - 211003 (U.P.)

(An Autonomous Constituent College of Allahabad University)

LIBRARY MANAGEMENT SYSTEM

-BY GAURANGI MISHRA

ROLL NO.-263030

{BACHELORS OF SCIENCE(PCAM)}

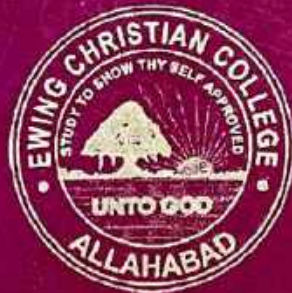
VITH SEM

UNDER THE

GUIDANCE OF DR.

P. TRIPATHI

HOD, DEPARTMENT OF COMPUTER SCIENCE



**DEPARTMENT OF COMPUTER
SCIENCE EWING CHRISTIAN
COLLEGE GAUGHAT,
PRAYAGRAJ.**

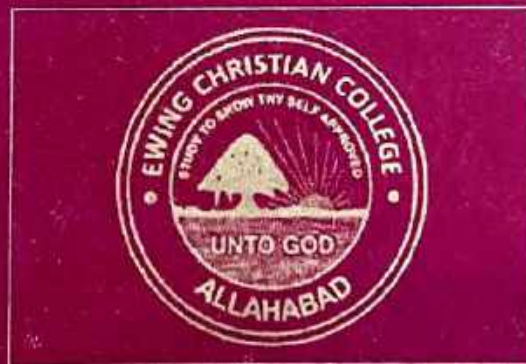
211001

Project Report On
LIBRARY MANAGEMENT SYSTEM

Submitted by
SAMEEHA MUSTAFA (263032)
ZIYA YAQOOB(263003)

B.Sc (PCAM)

SEM-6



Under the guidance of
Mr P. Tripathi Sir
Department of Computer

**A
PROJECT
ON
LIBRARY MANAGEMENT**

Submitted

By

**MADHUP RAI(263038)
SHIVSHAKTI KR. DUBEY(263050)
{BACHELORS OF SCIENCE(PCAM)}
6TH SEM**

Under the Guidance of

Dr. P. Tripathi

HoD, Department of Computer Science

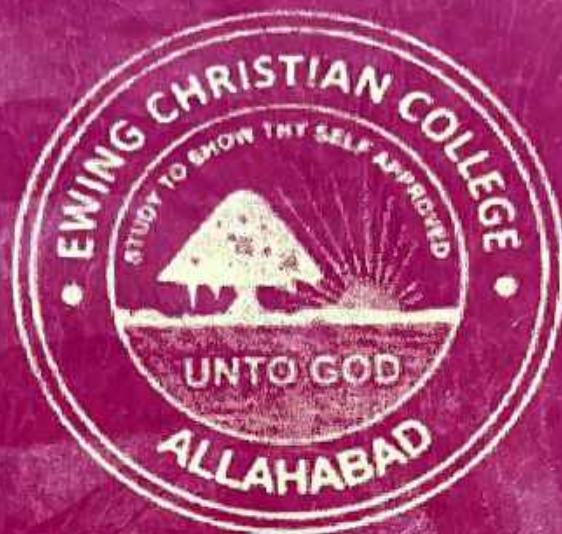


Department of Computer Science

Ewing Christian College

Prayagraj.

211001



SESSION 2022-23

NAME- AJAY KUMAR MISHRA(263016) AND
ABHINAV SINGH(263017)

ENROLLMENT NUMBER- ECC2005015 & ECC2005021

PROJECT ID-25

TOPIC- **E-PHARMACY SYSTEM**

GUIDED BY-Er.SONU PANDEY



Ewing Christian College, Prayagraj



SUBMITTED BY :-

MEMBER 1 – KANISHK SINGH

ENROLLMENT NUMBER – ECC2005048

ROLL NUMBER - 263037

PROJECT TITLE – PASSWORD MANAGER

MEMBER 2 – TANMAY MISHRA

ENROLLMENT NUMBER – ECC2005102

ROLL NUMBER - 263043

PROJECT TITLE – PASSWORD MANAGER

A PROJECT REPORT

ON

"AAS"

Submitted in partial fulfillment for the award of the Degree of

Bachelor of Computer Science

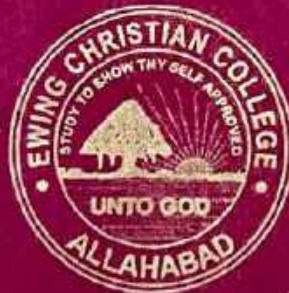
2022-2023

By

Shipra Mishra (ECC2005039)

Sana Khan(ECC2005006)

BSC 5th Semester



UNDER THE GUIDANCE OF

Mr. Lokendra Sir

DEPARTMENT OF COMPUTERS (BSC)

EWING CHRISTIAN COLLEGE,

PRAYAGRAJ

EWING CHRISTIAN COLLEGE



(AN AUTONOMOUS COLLEGE OF ALLAHABAD UNIVERSITY)

Session 2022-23

(DEPARTMENT OF COMPUTER APPLICATION)

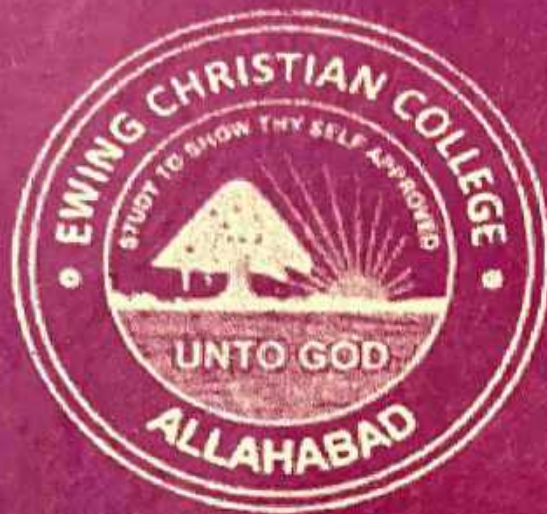
A PROJECT REPORT ON

STUDENT ID CARD APPLICATION WITH SMS VERIFICATION SYSTEM

**SUPERVISED BY
DR. INDRA TIWARI**

SUBMITTED BY:

**NISHANT SINGH
ROLL NO 263040
ENROLLMENT NO.
ECC2005034**



SESSION 2022-23

NAME- VAIBHAV PANDEY(263001) AND

SHUBHAM MISHRA(263012)

ENROLLMENT NUMBER- ECC2005031 &

ECC2005057

PROJECT ID-23

TOPIC-STUDENT MANAGEMENT SYSTEM

GUIDED BY-MR LOKENDRA TIWARI

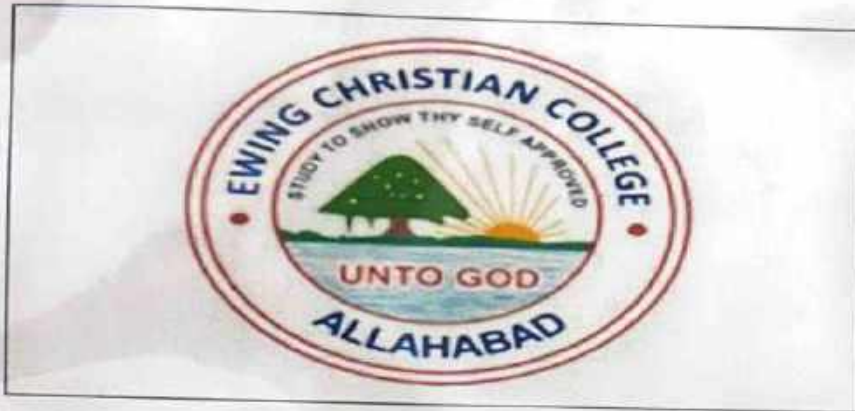
Ewing Christian College

PROJECT
**Organ
Music
Player**

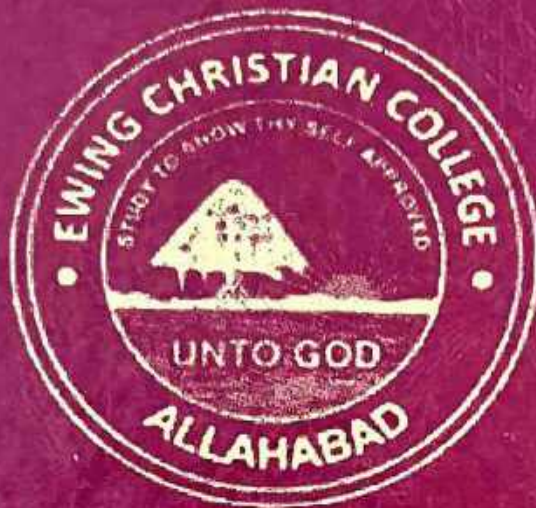
Guide:
Mr.Lokendra Kr Tiwari

By
Amit Nath
(Ecc2005001)
Kartikey Tripathi
(Ecc2005050)

**EWING CHRISTIAN COLLEGE
PRAYAGRAJ**



**PROJECT REPORT
ON
ONLINE VOTING SYSTEM
BY
PRERNA SINGH (263005)
B.Sc (PCAM) (2022-2023)
GUIDE: LOKENDRA TIWARI**



SESSION 2022-23

NAME-PRANJAL MISHRA(263028)

ENROLLMENT NUMBER- ECC2005030

TOPIC-CAFE MANAGEMENT SYSTEM

GUIDED BY-MR LOKENDRA TIWARI

EWING CHRISTIAN COLLEGE, PRAYAGRAJ
(AN AUTONOMOUS CONSTITUENT COLLEGE OF UNIVERSITY OF ALLAHABAD)



**PROJECT REPORT
ON**

**HOTEL MANAGEMENT
SYSTEM**

BY

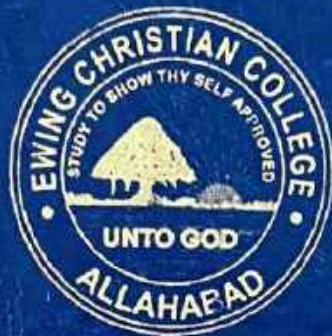
**RITESH SINGH KUSHWAHA (263015)
LAVKUSH KUMAR YADAV (263006)**

**B.Sc(PCAM)
SESSION : (2022-23)**

PROJECT GUIDE: MR. P. TRIPATHI



MY WEATHER APP



PROJECT REPORT

PREPARED BY: 1.Enrollment NO. ECC2005002 2.Enrollment no.ECC2005009

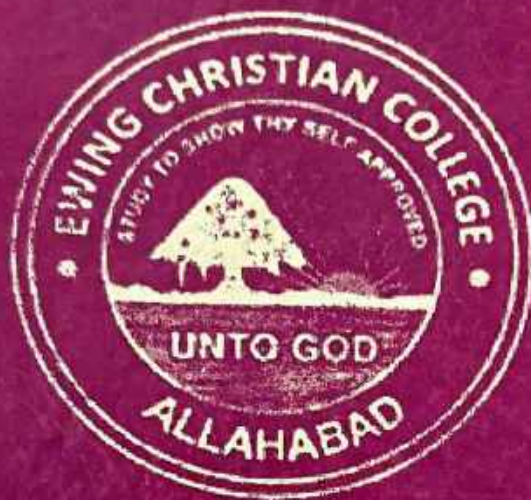
KHADIJA NIZAMI

SANIYA MASOOD

Roll NO. 263047

Roll NO. 263049

UNDER THE GUIDANCE OF: DR. LOKENDRA TIWARI



SESSION 2022-23

NAME- ANSH KAPIL(263031)

ENROLLMENT NUMBER- ECC2005054

TOPIC-FARMER'S FRIENDS

GUIDED BY-MR LOKENDRA TIWARI

A

Dissertation on

“Diastereoselective Reactions”

By

SHIKHA MISHRA (221011)

Enrollment No.: ECC2160014

Submitted in partial fulfillment of the requirement of

the degree of

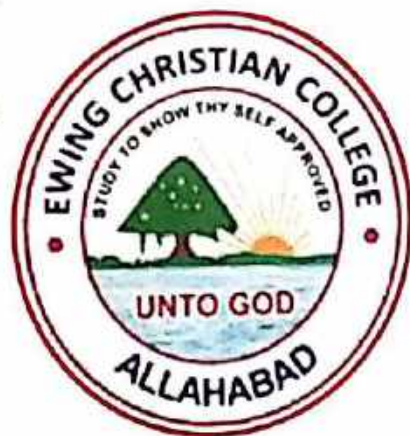
Master of Science

In

Organic Chemistry

Under the guidance of

Dr. Vivek Bhadauria



Department of Chemistry
EWING CHRISTIAN PG COLLEGE,
PRAYAGRAJ

(An autonomous constituent college of Allahabad University)

May 2023

A

Dissertation On

“Mass Spectroscopy”

By

RISHABH MISHRA (221019)

Enrollment No.: ECC2160010

Submitted in partial fulfillment of the requirement of

the degree of

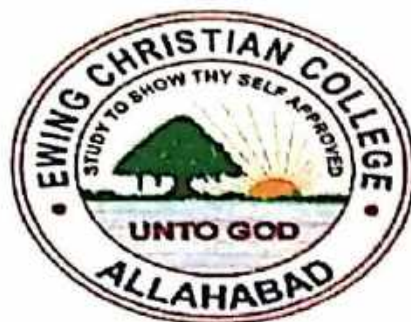
Master of Science

In

Organic Chemistry

Under the guidance of

Dr. Vivek Bhadauria



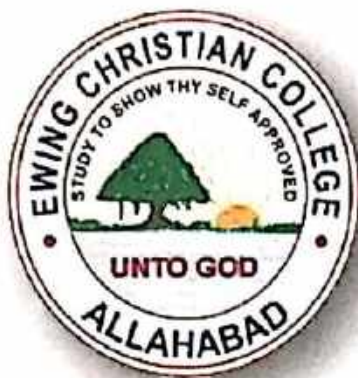
Department of Chemistry

EWING CHRISTIAN PG COLLEGE,

PRAYAGRAJ

(An autonomous constituent college of University of Allahabad)

May 2023



EWING CHRISTIAN COLLEGE

(AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY)

RESEARCH PROJECT ON

“SYNTHESIS OF NANOPARTICLES USING PLANT EXTRACT”

FOR THE DEGREE OF MASTER OF SCIENCE
IN

CHEMISTRY (ORGANIC)

BY

MOHAMMAD ANAS

UNDER THE SUPERVISION OF

Dr. M. KARUNAKAR

DEPARTEMENT OF CHEMISTRY

EWING CHRISTIAN COLLEGE

PRAYAGRAJ-211003

"Synthesis, Characterization of Star shaped Benzoxazole-based Liquid Crystal"



EWING CHRISTIAN COLLEGE

(An Autonomous Constituent College of University of Allahabad)

A DISSERTATION SUBMITTED FOR THE DEGREE OF
MASTER OF SCIENCE

IN

CHEMISTRY

BY

RITIKA SAHU

Under the Supervision of

Dr. M. KARUNAKAR

DEPARTMENT OF CHEMISTRY

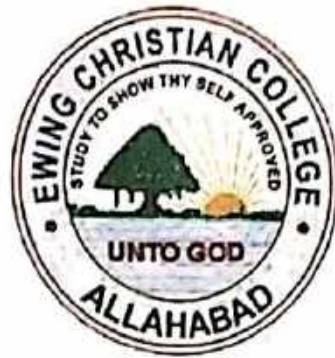
EWING CHRISTIAN COLLEGE

PRAYAGRAJ - 211003

Roll No. 221004

Enrollment No. ECC2160012

Ewing Christian College



PROJECT ON

ADSORPTION OF METHYL ORANGE DYE EMPLOYING POMEGRANATE PEEL AS AN ADSORBENT

A DISSERTATION SUMMITTED FOR DEGREE

MASTERS OF SCIENCE

IN

CHEMISTRY

BY

SANDHYA YADAV

ROLL NO. 221007

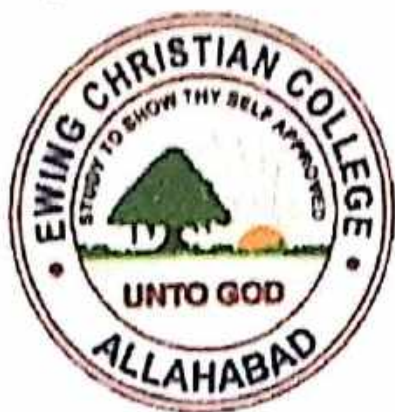
ENROLLMENT NO. ECC2160008

UNDER THE SUPERVISION OF

DR. PRERNA HIGGINS

DEPARTMENT OF CHEMISTRY

Electrocyclic Reactions



A DISSERTATION SUBMITTED FOR THE
DEGREE OF

MASTER OF SCIENCE

IN

CHEMISTRY.

BY

STUTI SINGH.

UNDER THE SUPERVISION OF

DR. PRERNA HIGGINS.

[ASSISTANT PROFESSOR]

OF CHEMISTRY.

Ewing Christian College, Prayagraj
Department of chemistry



**Synthesis of Silver Nanoparticles from *Azadirachta indica*,
Lycopersicon esculentum and honey : A size variation study.**

A Project report

Submitted in partial fulfilment of the requirements for the
award of degree of
Master of Science
In
Chemistry

Submitted by:

Priyanshi Yadav

Under the Supervision of:

Mr. Abhinav Lal

Assistant Professor

ROLL NO. 221017

2022-23

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

DEPARTMENT OF CHEMISTRY



**USE OF PLANT BASED DERIVATIVES FOR BIOSYNTHESIS
OF SILVER NANOPARTICLES**

A PROJECT REPORT

Submitted in partial fulfilment of the requirements for the

award of degree of

MASTER OF SCIENCE

IN

CHEMISTRY

SUBMITTED BY

Amrita Kashyap

UNDER THE SUPERVISION OF:

Mr. Abhinav Lal

Assistant Professor

Roll No:221009

2022-23

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

DEPARTMENT OF CHEMISTRY



Leaf Extract Mediated Green Synthesis Of Silver Nanoparticles From Widely Available Indian Plants *Aloe barbadensis*, *Hibiscus rosa sinensis*, *Coriandrum sativum*

A Project Report

Submitted In Partial fulfillment Of The Requirements For The Award of degree of

MASTER OF SCIENCE

IN

CHEMISTRY

Submitted by

Mahenaz Khan

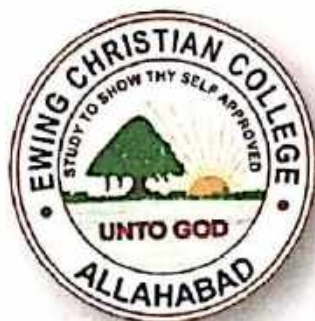
UNDER THE SUPERVISION OF

Mr. Abhinav Lal

Assistant Professor

Roll No. – 221010

2023



EWING CHRISTIAN COLLEGE
(AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY)

RESEARCH PROJECT ON
"MOLYBDENUM COFACTOR"
FOR THE DEGREE OF MASTER OF SCIENCE

IN

CHEMISTRY (INORGANIC)

BY

ANKIT MISHRA

UNDER THE SUPERVISION OF

Dr. EBENEZER SAMUEL

DEPARTEMENT OF CHEMISTRY

EWING CHRISTIAN COLLEGE

PRAYAGRAJ - 211003

Ewing Christian College, Prayagraj

Department of Chemistry



Topic : Metal Organic Framework

A Project Report

Submitted in Partial Fulfillment of the requirements for the
award of degree of

Master of Science

in

Chemistry (Inorganic)

Session: 2022-23

Submitted by:

Astha

Roll No.: 221020

Enrollment No. ECC2160031

Under the Supervision of:

Dr. Sharda Sundaram Sanjay



Ewing Christian College, Prayagraj
Department of Chemistry



“The role of soil nutrients on living systems”

A project report

Submitted in partial fulfillment of the requirements for the award of the degree of

Master of science

in

Chemistry

Submitted by:

Mahima Luther

Enrollment No.- ECC2160003

Under the supervision of:

Dr. Ebenezer Samuel

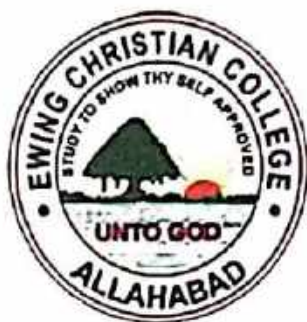
Assistant professor

(Department of Chemistry)

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

(An Autonomous Constituent College of the University of Allahabad)

DEPARTMENT OF CHEMISTRY



Nickel: Boon or a Bane

A Project Report

Submitted in partial fulfilment of the requirements for the award
of degree of

Master of Science

In

Chemistry

Submitted by:

Aishwarya Khanna

Under the Supervision of:

**Dr. Ebenezer Samuel
Assistant Professor**

Enrolment No. – ECC2160002

Roll No.- 221005

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

An Autonomous Constituent College of the University of Allahabad



DEPARTMENT OF CHEMISTRY

SESSION – 2022-2023

A PROJECT ON:

Chemistry of Mono Sodium Glutamate:

A comprehensive Insight & its Application

Supervised By:

Dr. Vikram Mushran

Associate Professor

Department of Chemistry

Ewing Christian College

Prayagraj

Submitted By:

Syed Mohd. Yusuf Hussain

MSc. Semester IV

Roll No. : 221023

Enro. No. : ECC2160006

Ewing Christian College

(An Autonomous constituent college of Allahabad university)



DEPARTMENT OF CHEMISTRY

SESSION 2022-2023

A Project for Master of Chemistry in

Ocimum basilicum starch grafted polyacrylamide

in water treatment

SUPERVISED BY:

Dr. KRANTHIKUMAR TUNGALA

Department of Chemistry

EWING CHRISTIAN COLLEGE

SUBMITTED BY:

ANKITA

M.Sc. Semester IV

Roll No. 221018

Enrollment No. ECC2160023

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

(AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY)



DEPARTMENT OF CHEMISTRY

SESSION – 2022-2023

**A project for Master's of Chemistry in
“Hydrolysis of Ocimum Basilicum Starch
Grafted Polyacrylamide in Water Treatment”**

Supervised By:

Dr. Kranthikumar Tungala

Department of Chemistry

Ewing Christian College

Submitted by:

Insiya Jamal

M.Sc. Semester IV

Roll No – 221012

En No ECC2160020

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY



DEPARTMENT OF CHEMISTRY

SESSION 2022-23

A PROJECT ON

ANTI DIABETIC DRUGS

SUPERVISED BY:

Dr. Shraddha Srivastava

DEPARTMENT OF CHEMISTRY

EWING CHRISTIAN COLLEGE

PRAYAGRAJ

SUBMITTED BY:

JANHVI GAUTAM

MSc. IV SEMESTER

ROLL NO.- 221021

ECC2160025

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

(AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY)



DEPARTMENT OF CHEMISTRY

SESSION – 2022-2023

A project on

**Conversion of waste plastics into fuel
by pyrolysis process**

Supervised By:

Dr. Shikhi Sahai

Department of Chemistry

Ewing Christian College

Submitted by:

Sandhya Yadav

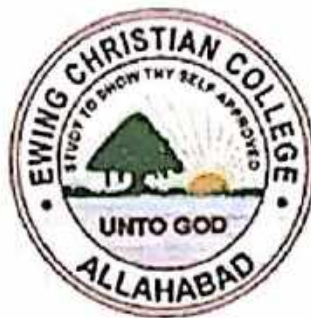
MSc. Semester IV

Roll No – 221022

Entr No. ECC 2160018

EWING CHRISTIAN COLLEGE , PRAYAGRAJ

AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY



DEPARTMENT OF CHEMISTRY

SESSION – 2022-2023

A Project on
**SYNTHESIS & APPLICATIONS OF SILICA
AEROGEL**

Supervised By:

**Dr. SHIKHI SAHAI
DEPARTMENT OF CHEMISTRY
EWING CHRISTIAN COLLEGE**

Submitted By:

**VANSHITA YADAV
M.Sc SEMESTER 4th
ROLL NO.-221003
ENR. NO.-ECC2160028**

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD UNIVERSITY



DEPARTMENT OF CHEMISTRY

SESSION 2022-23

A PROJECT ON

ANTI RHEUMATIC DRUG

SUPERVISED BY:

Shraddha
Dr. Shraddha Srivastava

DEPARTMENT OF CHEMISTRY

Ewing Christian college

SUBMITTED BY:

Shiwangee Upadhyay

MSc. Semester IV

Roll no. 221016

Enrollno. ECC2160030

Ewing Christian College

An Autonomous Constituent College of Allahabad University



DEPARTMENT OF CHEMISTRY

SESSION 2022-2023

A Project on

Transition Metal Complexes

SUPERVISED BY:

Dr. (Mrs.) S.S. Sanjay

Department of chemistry

EWING CHRISTIAN COLLEGE

SUBMITTED BY:

ABHISHEK GUPTA

M.Sc. Semester IV

Roll No.: 221015

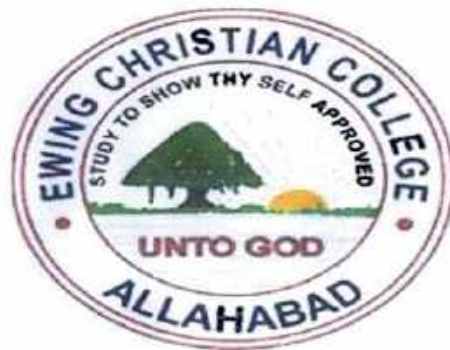
Enrollment No.: ECC2160015

SHASHI DESHPANDE AS A FEMINIST WRITER

MA THESIS

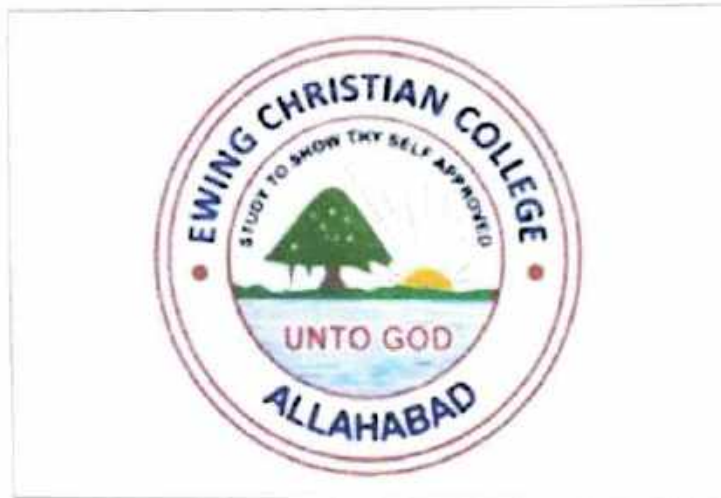
by

POOJA MISHRA



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

REPRESENTATION OF GENDER IN WUTHERING HEIGHTS
A DISSERTATION SUBMITTED TO
AN AUTONOMOUS CONSTITUENT COLLEGE OF ALLAHABAD
UNIVERSITY
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE
DEGREE OF
MASTERS IN ENGLISH LITERATURE



SUBMITTED BY-

KHUSHI JAISWAL

M.A ENGLISH [3rd SEM]

ROLL NO- 214003

SUPERVISED BY-

Dr. JYOTI K MASSEY

HEAD OF THE DEPARTMENT

DEPARTMENT OF ENGLISH

EWING CHRISTIAN COLLEGE

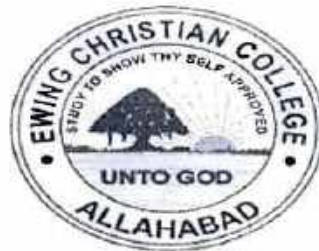
EWING CHRISTIAN COLLEGE, PRAYAGRAJ
AN AUTONOMOUS COLLEGE OF ALLAHABAD UNIVERSITY

MARXIST READING OF PREMCHAND'S SOME SHORT STORIES

MA THESIS

by

ANJALI VERMA



DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA

EPIC THEATRE AND EXPERIMENTAL DRAMA: BERTOLT BRECHT AND INDIAN PLAYWRIGHTS

MA THESIS

by

KUNDAN YADAV



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

A Critical Study of Jules Verne's
Around The World In Eighty Days

MA THESIS

by

PRAGYA TRIPATHI



DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA

**FEMINIST APPROACH TO *MRS. DALLOWAY* :SOCIAL
SPHERES, MARRIAGE AND SEXISM.**

MA THESIS

by

Vivek Srivastava



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

**NATURALISM AND SELF-EXPLORATION IN HENRIK
IBSEN'S *A DOLL'S HOUSE*, *HEDDA GABLER*, AND *GHOSTS***

MA THESIS

by

SHIFA MUKHTAR



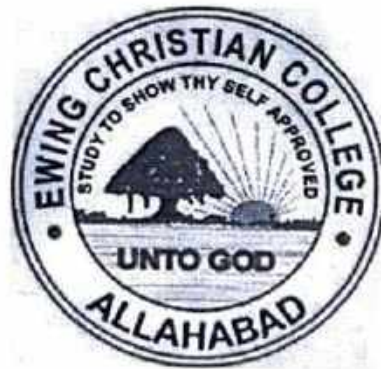
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

**THE STUDY OF DALIT FEMINISM IN
*MAHASHWETA DEVI'S "RUDALI"***

MA THESIS

by

GARIMA SINGH



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE**

PRAYAGRAJ - 211003

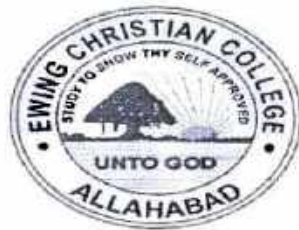
INDIA

**CONTEMPORARY FEMINISM IN THE NOVEL LITTLE WOMEN
BY LOUISA MAY ALCOTT**

MA THESIS

by

ABIHA RIZVI



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

HUMANISM IN THE STORIES OF SALEEM

MA THESIS

by

SHABD SINGH



DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA

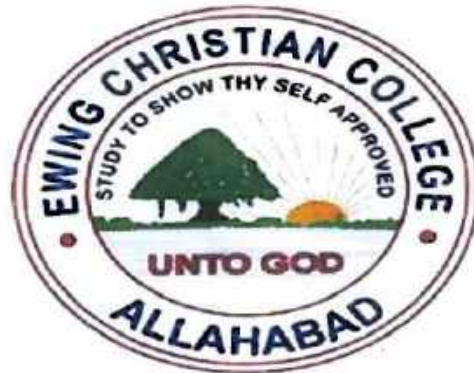
AN UTILITARIAN LENS TO CHARLES DICKENS'S

A CHRISTMAS CAROL

MA THESIS

by

ABHINAW MISHRA



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE**

PRAYAGRAJ- 211003

INDIA

"THE STUDY OF FEMINISM IN ANITA DESAI'S, FIRE ON THE MOUNTAIN"

MA THESIS

by

MAHIMA YADAV

Semester-3

2022-2023

(Roll no -214012)



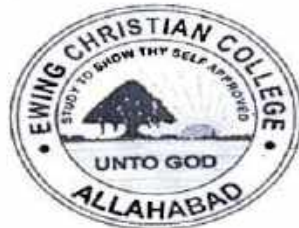
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

**THE STUDY OF PARADISE LOST BY JOHN MILTON : OBEDIENCE
AND DISOBEDIENCE, FATE AND FREE WILL AND PRIDE, SIN
AND LIES AND DECIET**

MA THESIS

by

ALISHA RAMAN



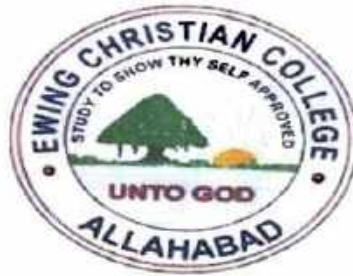
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

Use of Mythology in Karnad's plays

MA THESIS

by

Aman Pandey



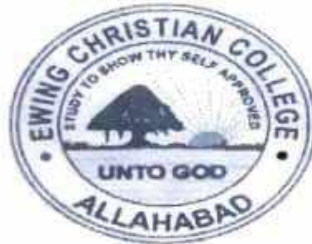
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

BHAKTINIAN STUDY OF MIDNIGHT'S CHILDREN

MA THESIS

by

ABHINAW MISHRA



DEPARTMENT OF ENGLISH

EWING CHRISTIAN COLLEGE

PRAYAGRAJ- 211003

INDIA

**KHALED HOSSEINI AS A WRITER AND HIS EPIC DEPICTION
OF THE MISERIES SUFFERED BY THE WOMEN OF AFGHAN IN
HIS NOVEL “A THOUSAND SPLENDID SUNS”**

MA THESIS

by

ABIHA RIZVI



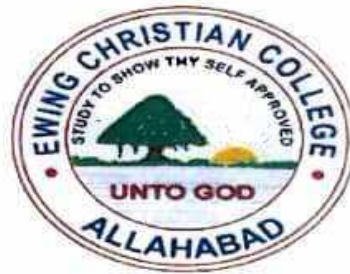
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

CONTEMPORARY JEWISH AMERICAN WOMEN WRITERS : MODERNITY AND ORTHODOXY

MA THESIS

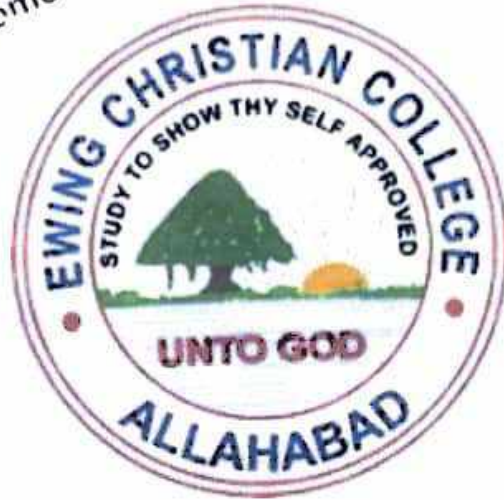
by

SHABD SINGH



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ - 211003
INDIA**

EWING CHRISTIAN COLLEGE, ALLAHABAD
An autonomous constituent of Allahabad University



GOD HAS POURED OUT HIS LOVE INTO OUR HEARTS-ROMAN 5:5

DISSERTATION TOPIC

“Afro-American Poets before Black Arts Movement”

UNDER THE SUPERVISION OF-

**Dr. Jyoti Hermit
(HOD)
Assistant professor
Department of English
Ewing Christian College**

SUBMITTED BY-

**SUMAIYA FIROZ
M.A. ENGLISH (4th SEM)
ROLL NO. 214008**

Post-colonial Analysis of Chinua Achebe's African Trilogy

MA THESIS

by

VIVEK SRIVASTAV



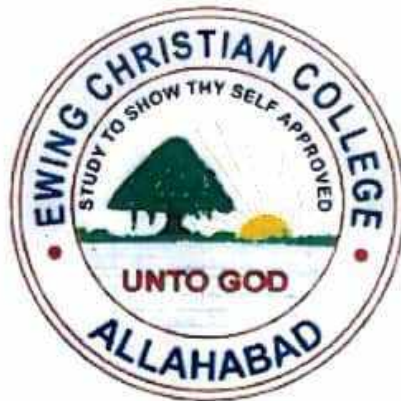
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

PARATEXT AND INTERPRETATION OF FICTION

MA THESIS

by

KUNDAN YADAV



DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ - 211003
INDIA

Jai

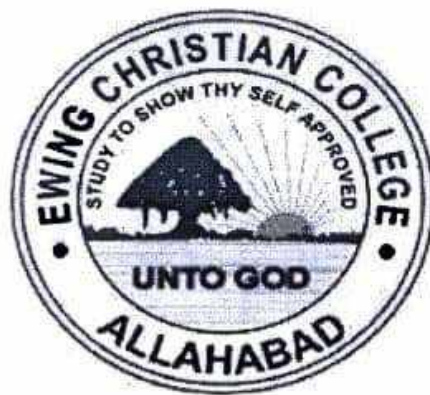
VOICES OF THE OPPRESSED: A Critique of the

Confessional Poems of Sylvia Plath and Kamala Das

MA THESIS

by

KHUSHI JAISWAL



DEPARTMENT OF ENGLISH

EWING CHRISTIAN COLLEGE

PRAYAGRAJ- 211003

INDIA

Realism and Romance in the Early Novels of
D.H. Lawrence *The White Peacock & The Trespasser*

MA THESIS

by

PRAGYA TRIPATHI



DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE

PRAYAGRAJ- 211003

***“THE STUDY OF POSTCOLONIALISM IN KIRAN DESAI’S,
“THE INHERITANCE OF LOSS”***

MA THESIS

by

MAHIMA YADAV

Semester-4

2022-2023

(Roll no -214012)



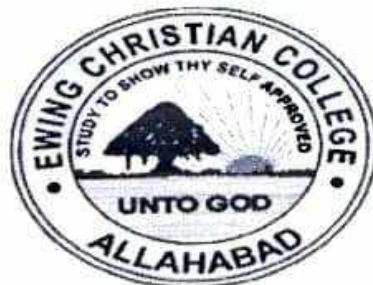
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

Non human world in the works of Thomas hardy

MA THESIS

by

ALISHA RAMAN



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

ABSURDISM IN THE NOVELS OF ALBERT CAMUS

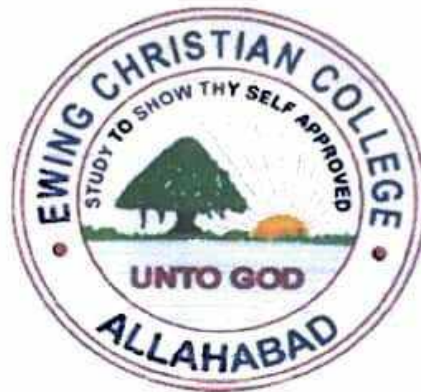
AND

FRANZ KAFKA

MA THESIS

By

POOJA MISHRA



SUPERVISION

Dr. SURAJ GUNWANT

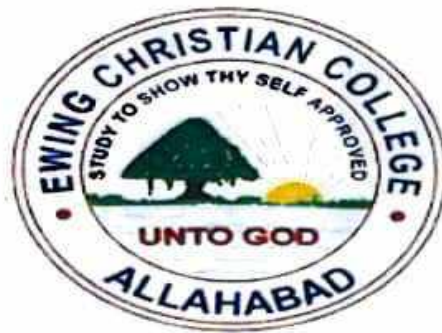
**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE, PRAYAGRAJ
U.P. INDIA**

HISTORY AND MYTH IN THE WORKS OF SHASHI THAROOR

MA THESIS

By

SHIFA MUKHTAR



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE**

PRAYAGRAJ- 211003

INDIA

**THE STUDY OF POSTCOLONIALISM IN ROHINTON MISTRIS
"A FINE BALANCE"**

A THESIS

***Submitted in partial Fulfillment of the
requirements for the award of the degree***

of

MASTER OF ARTS

in

English

by

Garima Singh

**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

**PORTRAYAL OF WOMEN IN JANE EYRE AND WIDE
SARGASSO SEA**

MA THESIS

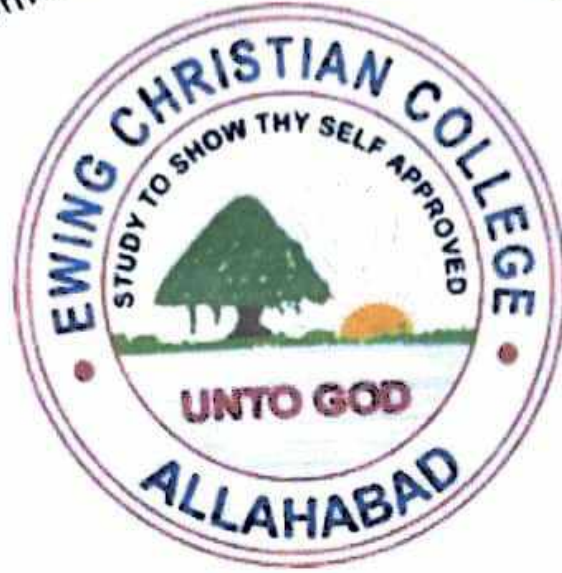
by

AMAN PANDEY



**DEPARTMENT OF ENGLISH
EWING CHRISTIAN COLLEGE
PRAYAGRAJ- 211003
INDIA**

EWING CHRISTIAN COLLEGE, ALLAHABAD
An autonomous constituent of Allahabad University



GOD HAS POURED OUT HIS LOVE INTO OUR HEARTS-ROMAN 5:5

DISSERTATION TOPIC

‘Comparative Study of Mulk Raj Anand and Charles Dickens Novel’

UNDER THE SUPERVISION OF-

**Damini Yadav
Department of English
Ewing Christian College**

SUBMITTED BY-

**Anjali Verma
M.A. ENGLISH (4th SEM)
ROLL NO. 214007**



Ewing Christian College, Prayagraj.

A Christian Minority Institution of Church of North India, Diocese of Lucknow
An Autonomous Constituent PG College of University of Allahabad

"Study to show thyself approved unto God"

CERTIFICATE OF ORIGINAL WORK

This is to certify that the Project work title "**Municipal Corporation Election of Prayagraj 2023; A Geographical Study,**" is an original piece of work done by Ms Anjali Tiwari and Mr. Ateek Singh under our guidance and supervision for the award of the Degree of Masters in Geography, Ewing Christian College, University of Allahabad, Prayagraj, India.

To the best of my knowledge and belief, this work:

- 1. Embodies the work of candidates themselves**
- 2. Has been duly completed**
- 3. Fulfils the requirement relating to the award of the Master Degree in Geography**
- 4. It is up to the standard both in respect of contents and language for being referred to the examiner**

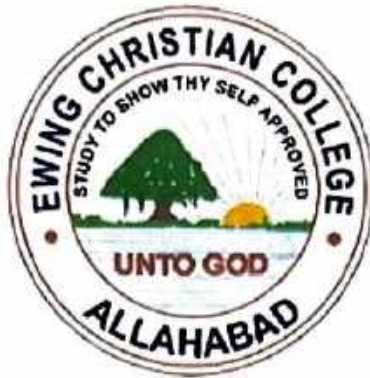
Dr. AJIN RAY

**CONVENER
GEOGRAPHY DEPARTMENT**



Dr. VINEETA JOHN

**EX.CONVENER
GEOGRAPHY DEPARTMENT**



CERTIFICATE

This is to certify that the Project work title "A Geographical Study of the Level of Commercialization in Bhaghambhari Housing Scheme (Ward No- 18)," is an original piece of work done by Mr. Pushkar Singh, Mr. Atul Yadav and Mr. Utkarsh Tiwari under our guidance and supervision for the award of the Degree of Masters in Geography, Ewing Christian College, University of Allahabad, Prayagraj, India.

To the best of my knowledge and belief, this work:

- 1. Embodies the work of candidates themselves**
- 2. Has been duly completed**
- 3. Fulfills the requirement relating to the award of the Master Degree in Geography**
- 4. It is up to the standard both in respect of contents and language for being referred to the examiner**

Dr. AJIN RAY

CONVENER

GEOGRAPHY DEPARTMENT

Dr. VINEETA JOHN

EX-CONVENER

GEOGRAPHY DEPARTMENT




CERTIFICATE

This is to certify that the Project work titled "A Geographical Study of Slum's In Prayagraj: A Case of Kydganj and Gaughat Slums," is an original piece of work done by, Mr. Prashant Kumar Singh, Ms. Nainika Yadav and Mr. Alok Kumar under our guidance and supervision for the award of the Degree of Masters in Geography, Ewing Christian College, University of Allahabad, Prayagraj, India.

To the best of my knowledge and belief, this work:

1. Embodies the work of candidates them self
2. Has been duly completed
3. Fulfils the requirements relating to the award of the Masters degree in Geography
4. It is up to the standard both in respect of contents and language for being referred to the examiner


Dr. AJIM RAY

ASSOCIATE PROFESSOR
GEOGRAPHY DEPARTMENT
DEPARTMENT OF GEOGRAPHY
EWING CHRISTIAN COLLEGE
ALLAHABAD


Dr. VINEETA JOHN

ASSOCIATE PROFESSOR
GEOGRAPHY DEPARTMENT



POST GRADUATE DEPARTMENT OF PHYSICS

(A Star Department of College Under CPE Status Awarded by UGC)

EWING CHRISTIAN COLLEGE

web : www.ecc.ac.in
E-mail : eccphysics@ecc.ac.in

PRAYAGRAJ, UTTAR PRADESH (INDIA) - 211003

(An Autonomous Constituent P.G. College of University of Allahabad)

PROJECT DETAILS OF M.Sc PHYSICS SEMESTER IV OF THE SESSION 2022-23

Sl. No.	ROLL No.	Enrolment No.	Student Name	Project title	Supervisor
1	23001	ECC2164001	Ritik Kumar Singh	Dynamic Behaviour and Physical Properties of Nematic Liquid Crystal Mixtures Dispersed with Nanoparticles	Dr. Kusum Lata Pandey and Mr. Saikumar Chirra
2	23003	ECC2164003	Akansha Pathak	Designing and Investigation of the Performance of Di of Different Generation Solar Cells using SCAPS-1D Device Simulation	Dr. Prem Prakash Singh
3	23004	ECC2164004	Mansi Rai	Radiation Health Hazards	Dr. Ashok Ku Pathak
4	23005	ECC2164005	Samriddhi Kushwaha	Comparative Study of Band -Gap Changes in Nano ZnO Embedded in various Polymeric Matrix and their Applications	Dr. Ashutosh Kumar Shukla and Dr Sharda Sundaram Sanjay
5	23007	ECC2164007	Nishant Kumar	Hydrogen Energy : Production and Storage	Dr. Umesh Kumar Yadav
6	23009	ECC2164009	Kuruvinakunnel Justin George	Reproduction of Magic Numbers in Single Particle Shell Model	Dr. Prashanta Kumar Khandai
7	23010	ECC2164010	Saksham Mishra	Synthesis and Characterization of Carbon Quantum Dots	Dr. Kusum Lata Pandey and Mr. Saikumar Chirra
8	23011	ECC2164011	Harshita Rai	Nematic Liquid Crystal in Flat Panel Display	Mr. Saikumar Chirra
9	23013	ECC2164013	Vaibhav Singh	Evaluation of Plasma Parameters from Optical Emission Spectrum	Dr. Ashok Kumar Pathak
10	23014	ECC2164014	Aditya Yadav	Super Capacitors : Basic and Application	Dr. Umesh Kumar Yadav
11	23015	ECC2164015	Surya Pratap Pandey	Nucleosynthesis in Stars	Dr. Prashanta Kumar Khandai
12	23016	ECC2164016	Shourya Tripathi	Cosmic Radiation: Review	Dr. Anil Kumar Singh and Dr. Ashok Kumar Pathak
13	23021	ECC2164021	Ranjeet Kumar Yadav	Impact of Silicon Carbide Semiconductor Technology in Photovoltaic Energy System	Dr. Prem Prakash Singh
14	23024	ECC2164024	Akhilendra Kushwaha	Liquid Crystals: Basic and Overview	Dr. Pradip Kumar Priya and Mr. Saikumar Chirra
15	23026	ECC2164026	Sachin Gangwar	Identification of Different Mesophases Uses DSC	Mr. Saikumar Chirra

* As per available records

Head
A
19-01-24

A Project work submitted on the topic

**Dynamic Behaviour and Physical Properties of Nematic Liquid
Crystal Mixtures Dispersed with nanoparticles**

by

RITIK KUMAR SINGH

Enrollment No : ECC2164001

Under The Supervision of

Dr. KUSUM LATA PANDEY

Associate Professor Department of Physics
Ewing Christian College

Co-Supervised by

Mr. SAI KUMAR CHIRRA

Assistant Professor Department of Physics
Ewing Christian College



Department of Physics

Ewing Christian College

Prayagraj 211003

JULY 2023

Designing And Investigation of the Performance of Different Generation Solar Cells Using SCAPS-1D Device Simulation

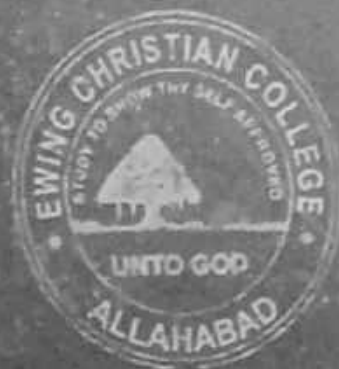
Submitted in partial fulfilment of the requirement for
the award of the degree of

Master of Science in Physics

of the

Ewing Christian College, Prayagraj - 211003

(An Autonomous Constituent College of Allahabad University)



By

AKANKSHA PATHAK

Enrolment No. BCC2164003

Under the Supervision of

Dr. Prem Prakash Singh

DEPARTMENT OF PHYSICS

EWING CHRISTIAN COLLEGE, PRAYAGRAJ

2021-2023



EWING CHRISTIAN COLLEGE

AN AUTONOMOUS COLLEGE OF ALLAHABAD UNIVERSITY



PROJECT

Submitted by

MANSI RAI

Enrolment No. - ECC2164004

Roll no - 223006

FOR

Master of Science in Physics

Session:(2021 – 2023)

A DISSERTATION

On

“Radiation Health Hazard”

Dr. Ashok Kumar Pathak

(Co- Supervisor)

Department of Physics

Christian College

Prayagraj

Late Dr. Anil Kumar Singh

(Supervisor)

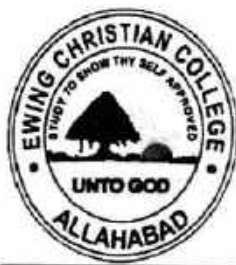
Department of Physics Ewing

Ewing Christian College

Prayagraj

**CAMPARATIVE STUDY OF BAND – GAP CHANGES IN NANO ZnO
EMBEDDED IN VARIOUS POLYMERIC MATRIX AND THEIR
APPLICATIONS – A REVIEW**

Submitted in partial fulfillment of the requirement for
the award of the degree of
Master of Science in Physics
Of the
Ewing Christian College, Prayagraj
(An Autonomous Constitute college of Allahabad University)



By

SAMRIDDHI KUSHWAHA
Enrolment NO.: ECC2164005

Under the supervision of

Dr. Ashutosh Kumar Shukla
Department of Physics
Ewing Christian College, Prayagraj
&

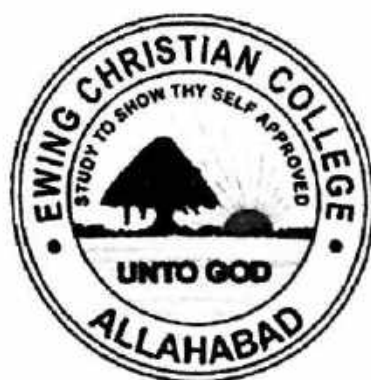
Dr. Sharda Sundram Sanjay
Department of Chemistry
Ewing Christian College, Prayagraj
(2021-2023)

Hydrogen Energy: Production and Storage

Submitted in partial fulfilment of the requirement for
the award of the degree of Master of Science in Physics
of the

Ewing Christian College, Prayagraj

(An Autonomous Constituent College of Allahabad University)



By

NISHANT KUMAR

Enrollment No.: ECC2164007

Under the guidance of

Dr. Umesh Kumar Yadav

Assistant Professor

Department of Physics

Ewing Christian College, Prayagraj

(2021-2023)

**REPRODUCTION OF MAGIC NUMBERS IN
SINGLE PARTICLE SHELL MODEL**

Submitted in partial fulfilment of the requirement for

The award of the degree of

Master of Science in Physics

Of the

Ewing Christian College, Prayagraj

(An Autonomous Constituted college of Allahabad
University)



By

Justin George

Enrolment NO. : ECC2146009

Under the supervision of

Dr. Prashanta Kumar Khandai

Department of Physics

(2021-2023)

A Project work submitted on the topic
Synthesis And Characterization of Carbon Quantum Dots

BY

SAKSHAM MISHRA

Enrollment No. ECC2164010

of

Master of Science

In

PHYSICS

(SEMESTER-IV)



Ewing Christian College

(An Autonomous Constituent College of Allahabad University)

Prayagraj

Academic Session: 2022-23

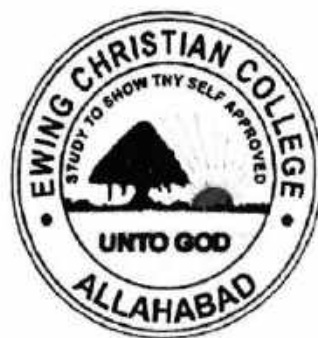
Supervisor:

Dr. Kusum Lata Pandey
Department of Physics,
Ewing Christian College,
University of Allahabad, Prayagraj

Co-Supervisor:

Mr. Shai Kumar Chirra
Department of Physics
Ewing Christian College,
University of Allahabad, Prayagraj

Nematic Liquid Crystal in Flat Panel Display (review)



A thesis submitted toward Partial fulfillment of
M.Sc Degree Program

By

HARSHITA RAI

ECC2164011

Under the guidance of

MR. Sai kumar chirra

ECC, Prayagraj

Ewing Christian College

An Autonomous college of University of Allahabad Prayagaraj, India

EVALUATION OF PLASMA PARAMETERS
FROM OPTICAL EMISSION SPECTRUM

Submitted in partial fulfillment of the required for the award
of the degree of
Master of Science in Physics
of the
Ewing Christian College – Prayagraj
(An Autonomous Constituent College Of Allahabad University)



By
Vaibhav Singh
Enrollment No. – ECC2164013

under the guidance of
(Supervisor)
Dr. Ashok Kumar Pathak
Department Of Physics
Ewing Christian College - Prayagraj

(Co – Supervisor)
Dr. Vishal dwivedi
Tampere University – Finland

Supercapacitors : Basics and Applications

Submitted in partial fulfilment of the requirement for
the award of the degree of
Master of Science in Physics
of the
Ewing Christian College, Prayagraj
(An Autonomous constituent College of University of Allahabad)



By
Aditya Yadav

Enrolment No.
ECC2164014

Under the supervision of
Dr. Umesh Kumar Yadav

Assistant Professor
Department of Physics
Ewing Christian
College, Prayagraj

(2021- 2023)

NUCLEOSYNTHESIS IN STARS

Submitted in partial fulfilment of the requirement for
the award of the degree of
Master of Science in Physics

Of the

Ewing Christian College, Prayagraj

(An Autonomous Constituted college of Allahabad
University)



By

Surya Pratap Pandey

Enrolment No.: ECC2164015

Under the supervision of

Dr. Prashanta Kumar Khandai

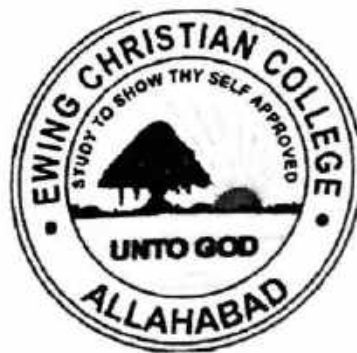
Department of Physics

(2021-2023)

COSMIC RADIATION: REVIEW

Submitted in partial fulfilment of the requirement for
the award of the degree of Master of Science in Physics
of the

Ewing Christian College, Prayagraj
(An Autonomous Constituent College of Allahabad University)



By

Shourya Tripathi

Enrollment No.: ECC2164016

Under the supervision of
Late Dr. Anil Kumar Singh
Associate Professor
Department of Physics
Ewing Christian College, Prayagraj

and co-supervised by
Dr. Ashok Kumar Pathak
Associate Professor
Department of Physics
Ewing Christian College, Prayagraj

IMPACT OF SILICON CARBIDE SEMICONDUCTOR TECHNOLOGY IN PHOTOVOLTAIC ENERGY SYSTEM

Submitted in partial fulfilment of the requirement for
the award of the degree of

Master of Science in Physics
of the

Ewing Christian College, Prayagraj - 211003
(An Autonomous Constituent College of Allahabad University)



By

RANJEET KUMAR YADAV

Enrolment No. ECC2164021

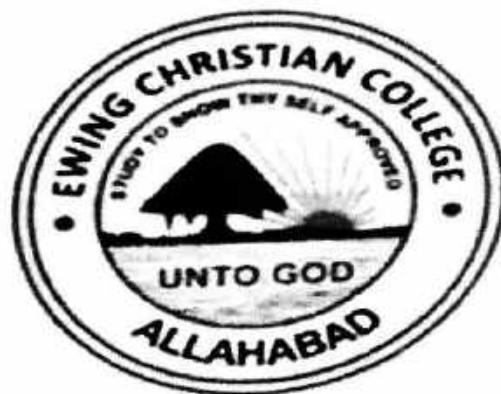
Under the Supervision of

Dr. Prem Prakash Singh

DEPARTMENT OF PHYSICS
EWING CHRISTIAN COLLEGE, PRAYAGRAJ
2021-2023

Liquid Crystals: Basics and overview

Submitted in partial fulfillment of the requirement for The award
of the degree of Master of Science in Physics
Ewing Christians College, Prayagraj
(An Autonomous Constituent College of Prayagraj)



By

AKHILENDRA KUSHWAHA
Enrollment No: ECC2164024
Under the supervision of

Dr. Pradip Kumar Priya

Assistant Professor
Department of Physics
Ewing christian College
Prayagraj

&

Mr. Saikumar Chirra

Assistant Professor
Department of Physics
Ewing Christian college
Prayagraj

2021-2023

IDENTIFICATION OF DIFFERENT MESOPHASES

USES DSC

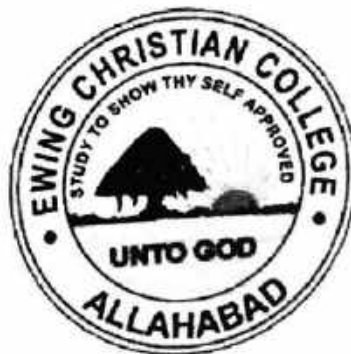
Submitted in partial fulfilment of the requirement for the award
of the degree of

Master of Science in Physics

of the

Ewing Christian College – Prayagraj

(An Autonomous Constituent College of Allahabad University)



By

SACHIN GANGWAR

ENROLLMENT NO . - ECC2164026

Under the Supervision of

Mr. SAIKUMAR CHIRRA

Department of Physics

ECC, PRAYAGRAJ

2021-23

A Study on Streaming Behavior

~

(A comprehensive analysis of on-demand streaming preferences and other trends, and a comparison of the three giants – Netflix, Amazon Prime and Disney+ Hotstar)

By

Rupali Singh

Roll No:242002

Enrollment no: Ecc2162004

Under the supervision of

Dr. Randhir Singh

(Head of Department of Statistics, Ewing Christian College, Allahabad)

And under the co-supervision of Dr. Anupama Singh, Ms. Harshita

(Department of Statistics, Ewing Christian College, Allahabad)



**A STATISTICAL ANALYSIS OF
CRIME IN INDIA**

**DEPARTMENT OF STATISTICS
EWING CHRISTIAN COLLEGE
SUBMITTED BY:**

SRINIVASJI

AGARWAL

M.A. (III) Sem.

**Under the supervision of &
Head of the department**

Prof. RANDHIR SINGH

**DR. ANUPAMA SINGH
& HARSHITA MA'AM**

Measure of Inequality in Different States of India

On the Basis of Living Standard

A Major Project Report

Submitted To

DEPARTMENT OF STATISTICS

EWING CRISTIAN COLLEGE

PRAYAGRAJ

RUPALI SINGH

M.SC.

Roll No : 242002

Enrollment No: Ecc2162004

Under the supervision of &

Head of the department

Dr. Randhir Singh

FORECASTING MONTHLY WEATHER OF INDIA

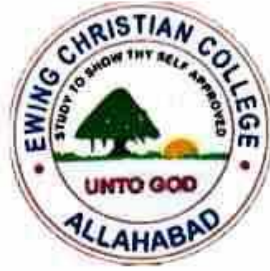
**Project report submitted to Ewing Christian
College (Autonomous)**

**in partial fulfillment of the requirement for
the award of the M.Sc. Degree Programme
in Statistics**

by

SRINIVASJI AGARWAL

**Department of
Statistics
Ewing Christian
College
Prayagraj**



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Neha Shamaun (ECC2161019)** has carried out this Project work/Dissertation work on **“Screening of Mungbean and Chickpea varieties against Bruchids in Allahabad agro-climatic Conditions”** for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Nishi Sewak

(Supervisor)

Assistant Professor

Dr. Sanjay C. Masih

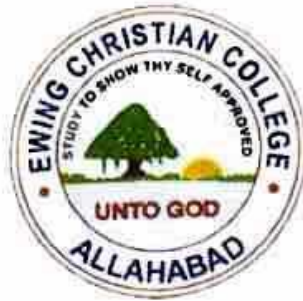
(Convenor)

Associate Professor

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Akanksha Jaiswal (ECC2161003)** has carried out this Project work/Dissertation work on “**Histological impact of Chemical insecticides and Botanicals against the Tobacco caterpillar, *Spodoptera litura* (Noctuidae; Lepidoptera)**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad**. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Nishi Sewak

(Supervisor)

Assistant Professor

Dr. Sanjay C. Masih

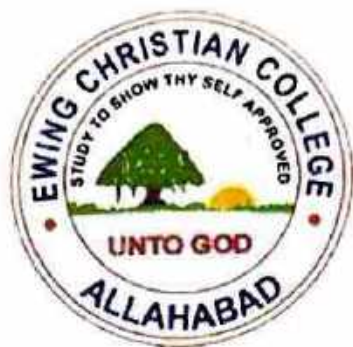
(Convenor)

Head of the Department

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **SHUBHAM KUMAR MISHRA (ECC2161026)** has carried out this Project work /Dissertation work on “ **Impact Of Different Oils On *Hordeum vulgare* Against *Sitophilus oryzae***” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student himself. The content of the project work does not form the basis for the award of any degree to the candidate or to anyone else.

Dr. Priyanka Vini Lall

(Supervisor)

Assistant Professor,
Department of Zoology,
Ewing Christian College.

Dr. Sanjay C. Masih

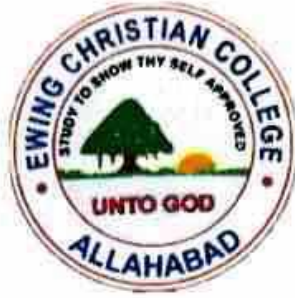
(Convenor)

Associate Professor,
Department of Zoology,
Ewing Christian College.

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj.



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Shuchi Shukla (ECC2161030)** has carried out this Project work/Dissertation work on “**Efficacy of certain botanical insecticides against *Callosobruchus chinensis* (Chrysomelidae; Coleoptera)**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Nishi Sewak

(Supervisor)

Assistant Professor

Dr. Sanjay C. Masih

(Convenor)

Associate Professor

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Zoha Alam (ECC2161024)** has carried out this Project work/Dissertation work on **“FEEDING POTENTIAL OF *Anas platyrhynchos*, THE MALLARD DUCK AS A POSSIBLE BIOCONTROL AGENT OF INSECTS”** for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.


Dr. Amitabh Shad

(Supervisor)

Assistant Professor


Dr. Sanjay C. Masih

(Convenor)

Associate Professor


Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

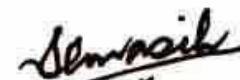
**(A CO-TITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD,
PRAYAGRAJ)**


DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Neda Tabrez (ECC2161010)** has carried out this Project work/Dissertation work on **"A STUDY ON THE FECUNDITY RATE OF CULEX QUINQUEFASCIATUS ON DIFFERENT AVIAN BLOOD "** for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.


Dr. Amitabh Shad
(Supervisor)
Assistant Professor


Dr. Sanjay C. Masih
(Convenor)
Associate Professor


Dr. Ashwani Kumar
(Expert)
Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Shradha Maurya (ECC2161011)** has carried out this Project work/Dissertation work on “**A study of larval morphology of Odonata with special reference to their predatory mouthparts**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.


Lt. Dr. Amitabh Shad

(Supervisor)

Assistant Professor


Dr. Sanjay C. Masih

(Convenor)

Associate Professor


Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SIUATS, Prayagraj



EWING CHRISTIAN COLLEGE , ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD,

PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY


CERTIFICATE

It is certified that **Anushka Vatsa (ECC2161001)** has carried out this Project work/Dissertation work on "**A study on the biodiversity of Aranae(Arachnida) in some major regions of Prayagraj** " for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.


Dr. Amitabh Shad

(Supervisor)

Assistant Professor


Dr. Sanjay C. Masih

(Convenor)

Associate Professor


Dr. Ashwani Kumar

(Expert)

Associate and Head professor

Department of Entomology,

SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD
(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)
DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Deepanjali Yadav (ECC2161017)** has carried out this Project work/Dissertation work on “**Single Pollination Efficiency of Insects Foraging Pumpkin (*Cucurbita maxima*)**” for the award of degree of Master of Science from **Ewing Christian College, Prayagraj University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Mr. Stebin Joseph
(Supervisor)

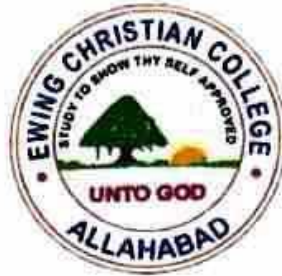
Assistant Professor
Department of Zoology
Ewing Christian College

Dr. Sanjay C. Masih
(Convenor)

Associate Professor
Department of Zoology
Ewing Christian College

Dr. Ashwani Kumar
(Expert)

Associate Professor and Head
Department of Entomology
SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that Mansi Srivastava (ECC2161029) has carried out this Project work/Dissertation work on “**Potential Hazards of Pesticides**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Sanjay C. Masih

(Supervisor)

Head of the Department

Dr. Sanjay C. Masih

(Convenor)

Head of the Department

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head

Department of Entomology,

SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, PRAYAGRAJ

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Apratim Srivastava (ECC2161009)** has carried out this Project work/Dissertation work on “**(Biodiversity of insects in the garden field of Anand Bhawan , Prayagraj)**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session of 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Ravindra K. Pathak
(Supervisor)

Assistant Professor

Ewing Christian

College, Prayagraj

Dr. Sanjay C. Masih
(Convenor)

Associate Professor

Ewing Christian

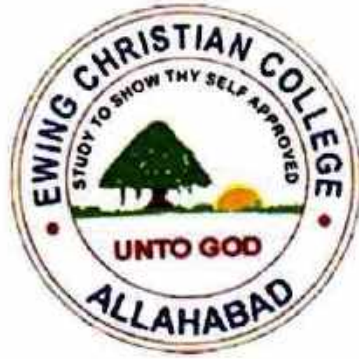
College, Prayagraj

Dr. Ashwani Kumar
(Expert)

Associate Professor and Head

of Entomology Department

SHUATS, Prayagraj



EWING CHRISTIAN COLLEGE, ALLAHABAD

(A CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF ALLAHABAD, PRAYAGRAJ)

DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **SAKSHI PANDEY (ECC2161027)** has carried out this Project work /Dissertation work on "**Butterfly Diversity In Man-Made Environment**" for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any degree to the candidate or to anyone else.

Dr. Priyanka Vini Lall

(Supervisor)

Assistant Professor,
Department of Zoology,
Ewing Christian College.

Dr. Sanjay C. Masih

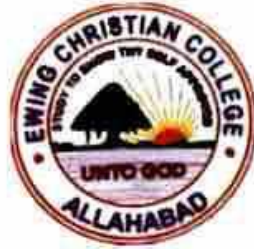
(Convenor)

Associate Professor,
Department of Zoology,
Ewing Christian College.

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head
Department of Entomology,
SHUATS, Prayagraj.



EWING CHRISTIAN COLLEGE, ALLAHABAD
(AN AUTONOMOUS CONSTITUENT P.G. COLLEGE OF UNIVERSITY OF
ALLAHABAD, PRAYAGRAJ)
DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Kritika Kesharwani (ECC2161008)** has carried out this Project work/Dissertation work on **"Studies on fish Biodiversity and Age structure of Common carp *Cyprinus Carpio* from Yamuna River at Sadlyapur, Prayagraj"** for the award of degree of Master of Science from Ewing Christian College, Prayagraj, University of Allahabad in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Lily. S. Nathan
(Supervisor)

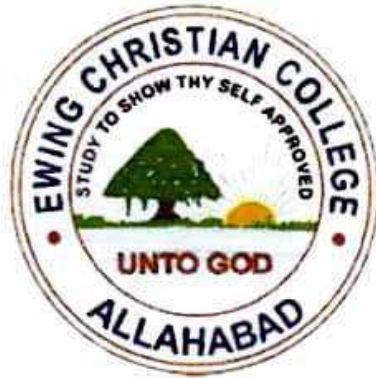
Associate Professor
Former Dean of Science
& Convener
Department of Zoology
Ewing Christian College

Dr. Sanjay C. Masih
(Convener)

Associate Professor
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Dr. Ashwani Kumar
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **UJALA KUSHWAHA (ECC2161014)** has carried out this Project work /Dissertation work of **“Insecticidal Activity Of Botanical Oil Against *Tribolium castaneum* On The Wheat Grains”** for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any degree to the candidate or to anyone else.

Dr. Priyanka Vini Lall

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Assistant Professor,
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Dr. Sanjay C. Masih

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Associate Professor,
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **NEHA YADAV (ECC2161020)** has carried out this Project work /Dissertation work of “ **Butterfly Species Diversity In Madan Mohan Malviya Park Of Prayagraj**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any degree to the candidate or to anyone else.

Dr. Priyanka Vini Lall

(Supervisor)

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Dr. Sanjay C. Masih

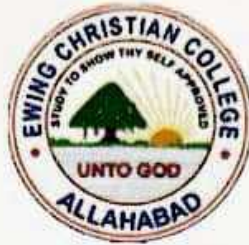
(Convenor)

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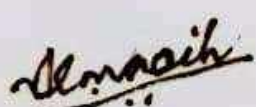
DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Bushra Ismile (ECC2161012)** has carried out this Project work/Dissertation work on “**(Biodiversity of insects in the garden field of Madan Mohan Malviya Park (MintoPark) , Prayagraj)**” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session of 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.


Dr. Ravindra K. Pathak
(Supervisor)

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that **Shivangi Rastogi (ECC2161002)** has carried out this Project work/Dissertation work on **“Studies on fish biodiversity and age structure of common carp *Cyprinus carpio* from Yamuna river at Gaughat Prayagraj** For the award of degree of **Master of Science from Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Lily Saroj Nathan

(Supervisor)

Associate Professor
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Dr. Sanjay C. Masih

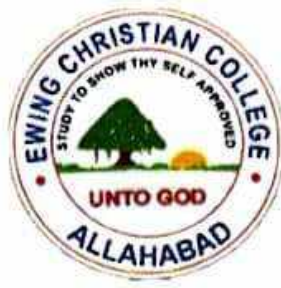
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DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that **DIVYA PANDEY (ECC2161021)** has carried out this Project work/Dissertation work on “(Studies on fish Biodiversity and Age structure of *Oreochromis niloticus* at Sadiyapur, Prayagraj)” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session of 2022-2023. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

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DEPARTMENT OF ZOOLOGY

CERTIFICATE

It is certified that Rama Mishra (ECC2161007) has carried out this Project work/Dissertation work on “Pesticides And Its Alternatives” for the award of degree of **Master of Science** from **Ewing Christian College, Prayagraj, University of Allahabad** in the session 2022-23. The project work embodies results based on the studies carried out by the student herself. The content of the project work does not form the basis for the award of any other degree to the candidate or to anyone else.

Dr. Sanjay C. Masih

(Supervisor)

Head of the Department

Dr. Sanjay C. Masih

(Convenor)

Head of the Department

Dr. Ashwani Kumar

(Expert)

Associate Professor and Head

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