

**A PROJECT ON**

**“PRAWN HEALTH MANAGEMENT**



**PRANATH COLLEGE (AUTONOMOUS)**

**AND DISEASE CONTROL TO SUSTAIN HATCHING  
AND POND PRODUCTION SYSTEMS**

**SUBMITTED BY:**

**JYOTSNAKANI SIDU**

**+3 3<sup>RD</sup> YEAR (ZOOLOGY)**

**5903U21018**

**Guided By: Prof. Ashok Kumar Balabantaray**

**DEPARTMENT OF ZOOLOGY**

# CERTIFICATE

This is to certify that the project report entitled "PREVALENCE OF NON-COMMUNICABLE DISEASES IN ODISHA" is carried out by Rupa Nayak, bearing roll no: 5903U21032 a student of +3 3rd year science (Zoology Hons.), under my supervision and guidance.

I confirm that I have seen a final copy of the project report and the presentation meets the requirements of Bachelor of Science Examination in Zoology (Hons.).

To the best of my knowledge and belief this seminar paper has not been submitted to any other college. Institution or University for the award of any other Degree or Diploma.

*edshen*  
*1-7-24*  
Principal  
Prananath College (Autonomous)  
Khordha

*B. Panigrahi*  
*19/3/24*  
Guided by

Dr Buli Kumari Panigrahi,  
Lecturer, Dept. of Zoology

PRANANATH COLLEGE (AUTONOMOUS), KHORDHA



# CERTIFICATE

This dissertation entitled a Study on "Prawn health management & disease control to sustain hatching & pond production system" is a record of independent benefited research work carried out by Jyotsna Rani Sidu during the period of Final Year Degree Hons-2024 under my supervision and guidance for the partial Fulfilment of the degree of Bachelor of Science in Zoology and that the dissertation has not previously formed the basis for the award of any Degree, Diploma of any other similar title.

I recommend this research work for submission to Pranath College (Auto), Khordha for the award of the Degree of Bachelor of Science in Zoology certificate.



Prof. Ashok K. Balabantaray

(Guide)

*1-2-24*  
Principal  
Pranath College (Autonomous)  
Khordha



A study on  
**"PLASTIC MARINE DEBRIS: IMPORTANCE TO  
AQUATIC ENVIRONMENT AND HUMAN HEALTH "**



A Dissertation  
submitted to PRANANATH COLLEGE  
(AUTONOMOUS), Khordha for the partial  
fulfillment of Bachelors of Science Degree

SUBMITTED BY:- AKANKSHA SINGH  
+3 3<sup>rd</sup> YEAR  
5903U21001  
DEPT. OF ZOOLOGY

GUIDED BY:-

MRS. TRUPTI REKHA PANDA  
READER IN ZOOLOGY  
DEPARTMENT OF ZOOLOGY

*shrimati*  
Principal  
Pran Nath College (Autonomous)  
Khordha



# CERTIFICATE

This dissertation entitled "*A Study on THREATS OF GLOBAL WARMING TOWARDS HUMAN HEALTH*" is a record of independent bonafied research work carried out by Susree Anuska Martha during the period of Final Year Degree Hons-2024 under my supervision and guidance for the partial fulfilment of the degree of Bachelor of Science in Zoology and that the dissertation has not previously formed the basis for the award of any Degree, Diploma of any other similar title.

I recommend this research work for submission to Pranath College (Auto), Khordha for the award of the Degree of Bachelor of Science in Zoology certificate.



(LINGARAJ PARIDA)

Guide



*afz km*  
Principal  
Pranath College (Autonomous),  
Khordha

**PRANANATH COLLEGE (AUTONOMOUS)**

**KHORDHA**



**2021-24**

**ZOOLOGY DEPARTMENT**

**A STUDY ON CLIMATE CHANGE AND ITS  
EFFECT ON BIODIVERSITY OF KHORDHA**

*Principals  
1-7-24*

*Principals  
Pran Nath College (Autonomous)  
Khordha*



# Certificate

This dissertation entitled "A study on climate change and its effect on Biodiversity of Khordha" is a record of independent bonafied Hons. -2024 under my supervision and guidance for the partial fulfillment of the degree of Bachelor of science in zoology and that the dissertation has not previously formed the basis for the award of any Degree, Diploma of any other similar title.

I recommend this research work for submission to Pranath College (Auto.), Khordha for the award of the Degree of Bachelor of Science in Zoology certificate.

*Subhalaxmi Pattanaik*  
16.3.24  
**Subhalaxmi Pattanaik**

**Guide**

*Pranath*  
1.7.24  
**Prinicipal**  
Pranath College (Autonomous)  
Khordha



A study on  
**"THREATS OF GLOBAL WARMING TOWARDS HUMAN  
HEALTH"**

A Dissertation submitted to  
**PRANANATH COLLEGE (AUTONOMOUS), Khordha**  
for the partial fulfilment of  
Bachelors of Science Degree in



**SUBMITTED BY: -  
SUSMEE ANUSKA MARTHA  
+3<sup>RD</sup> YEAR (ZOOLOGY)  
5903U21054**



*Handwritten signature*  
1-7-24  
Principal  
Pranath College (Autonomous)  
Khordha

**GUIDED BY: -  
LINGARAJ PA...  
(LECTURER IN ZOOLOGY,  
DEPARTMENT OF ZOOLOGY)**



# CERTIFICATE

This dissertation entitled "**PLASTIC MARINE DEBRIS: IMPORTANCE TO AQUATIC ENVIRONMENT AND HUMAN HEALTH**" is a record of independent bonafide research work carried out by AKANKSHA SINGH during the period of Final Year Degree Hons-2024 under the supervision and guidance for the partial fulfillment of the degree of Bachelor of Science in Zoology and that the dissertation has not previously formed the basis for the award of any Degree, Diploma of any other similar title.

I recommend this research work for submission to Pranath Autonomous College, Khordha for the award of the Degree of Bachelor of Science in Zoology certificate.

*W.S.P.*  
*1.7.24*  
Principal  
Pranath College (Autonomous),  
Khordha

*Trupti Rekha Panda*  
(MRS. TRUPTI REKHA PANDA)

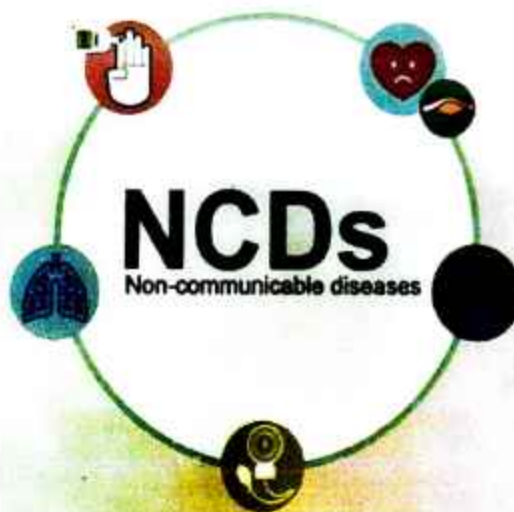
Guide



**PRANANATH COLLEGE (AUTONOMOUS),  
KHORDHA**



**A Project Report on Prevalence of Non-Communicable  
Diseases in Odisha**



**Dissertation Submitted To The Pranath College  
(AUTONOMOUS) In Partial Fulfillment Of The Requirement  
For Bachelor Degrees Examination In Zoology.**

**submitted by**

**Rupa Nayak**

**+3 final year science (zoology 2021-2024)**

**College Roll No.: BS (B) 21-367**

**Exam Roll No. : 5903U21032**

**Under Supervision Of:**


**Dr. Bull Kumari Panigrahi, Lecturer Dept. Of Zoology**

*Rupa Nayak*  
1-7-24

# CERTIFICATE

This dissertation entitled "**A STUDY ON NOISE POLLUTION AND IT'S IMPACT ON HUMAN HEALTH**" is a record of independent bonafied research work carried out by Laxmipriya pradhan during the period of Final Year Degree Hons-2024 under the supervision and guidance for the partial fulfillment of the degree of Bachelor of Science in Zoology and that the dissertation has not previously formed the basis for the award of any Degree, Diploma of any other similar title.

I recommend this research work for submission to Prananath Autonomous College, Khordha for the award of the Degree of Bachelor of Science in Zoology certificate.

  
(Dr. Madhusmita Tripathy)

Guide



  
Principal  
Prananath College (Autonomous)  
Khordha

# PRANANATH AUTONOMOUS COLLEGE



PRANANATH COLLEGE (AUTONOMOUS)

## KHORDHA

## DEPARTMENT OF ZOOLOGY

### 6th Semester

### PROJECT REPORT ON NOISE POLLUTION AND ITS IMPACT ON HUMAN POPULATION



GUIDED BY:

Madhusmita Tripathy  
Reader, Dept. Of Zoology



SUBMITTED BY:  
Laxmipriya Pradhan  
Roll No - BS(B)-005

University No - 5903/J21019  
+3 3rd Year Science

Principal  
1.7.24  
Pran Nath College (Autonomous)  
Khurda

## CERTIFICATE

**Dr. Swarnaprava Sahoo**

**M.A., M.Phil, Ph.D**

**(H.O.D & Reader in Education)**

**P.N.College (Autonomous), Khordha**

This is to certify that the dissertation entitled "PERCEPTION OF STUDENTS OF P.N. COLLEGE (AUTO), KHORDHA TOWARDS CHOICE BASED CREDIT SYSTEM (CBCS) SYLLABUS" being submitted to P.N. College (Auto), Khordha in partial fulfilment of requirements for the award of Bachelor of Arts Education (Hons.) by Miss/Shri *Bansha Chhotaray* is a record of bonafide work carried out by her/him under my supervision and guidance in the academic year 2022. The project is in my opinion worthy of consideration for the award of the Bachelor of Arts Education (Hons) degree.

*Bansha*  
17-24

*Sahoo*  
31/07/22

Principal (Dr. Swarnaprava Sahoo)  
Pranath College (Autonomous)  
Khordha

**H.O.D. & Reader**

**Department of Education**



**A DISSERTATION ON  
PERCEPTION OF STUDENTS OF PRANANATH  
COLLEGE (AUTONOMOUS), KHORDHA TOWARDS  
CHOICE BASED CREDIT SYSTEM (CBCS) SYLLABUS**

SUBMITTED TO PRANANATH COLLEGE (AUTONOMOUS),  
KHORDHA IN PARTIAL FULFILLMENT FOR THE DEGREE OF  
BACHELOR OF ARTS. EDUCATION (HONS.) (6<sup>th</sup> SEMESTER  
EXAMINATION - 2022 DSE-IV)



*Prad*  
*5/7/22*

**PRESENTED BY**

**Name - Barsha Chhotaray**

**B.A. (Hons.) Education**

**6<sup>th</sup> Semester**

**Roll No: 0403019009**

**Regd. No.:**

**GUIDED BY**

*Dr. Swarna*  
*1-7-24*

**Dr. Swarnaprava Sahoo**

**( H.O.D & Reader in Education )**

**Principal**  
**Pranath College (Auton)**  
**Khordha**

**DEPARTMENT OF EDUCATION  
PRANANATH COLLEGE (AUTONOMOUS),  
KHORDHA, ODISHA -752057**



# A DISSERTATION

On

"FACTORS DETERMINING THE CHOICE OF CAREER AMONG  
HIGHER SECONDARY SCHOOL STUDENTS"



This Dissertation is submitted to Utkal University for the Partial  
Fulfillment of the requirement of the +3,3rd year Degree Education  
Hons. (DSE-4, 6<sup>th</sup> Sem.) Examination, 2022-2023.

GUIDED BY:

Dr. Swarna Prava Sahoo

H.O.D & Reader in Education

Prananath College (A), Khordha

SUBMITTED BY:

Ranu Sethi

3<sup>rd</sup> Year Degree Exam- 2023

Roll No.: -0403U20038

Regd.No: -2001010590030085

*Del*  
22-03-2023



*Princip*  
17-24  
Principal  
Prananath College (Autonomous)  
Khordha

DEPARTMENT OF EDUCATION  
PRANANATH COLLEGE (AUTONOMOUS), KHORDHA  
PIN - 752057, ODISHA

**A SURVEY  
ON  
"FACILITIES IN ELEMENTARY SCHOOL"**



This Dissertation is submitted to Utkal University for the Partial Fulfillment of the requirement of the +3, 3<sup>rd</sup> year Degree Education Hons. (DSE-4, 6<sup>th</sup> Sem.) Examination, 2024.

GUIDED BY:

Dr. Sujata Moharana  
Lecturer in Education  
Prananath College (A),  
Khordha

SUBMITTED BY:

Name: Sumitrananda Moharana  
+3 3<sup>rd</sup> year Degree Examination  
Roll no:- 1416161115  
Reg. No. :- 20240509000055



*22/3/24*

**DEPARTMENT OF EDUCATION  
PRANANATH COLLEGE (AUTONOMOUS), KHORDHA  
PIN - 752057, ODISHA**

*22/3/24*



*Principal*  
*17/3/24*  
Principal  
Prananath College (Autonomous)  
Khordha



**A DISSERTATION**

**On**

**ACADEMIC ACHIEVEMENT OF 9<sup>TH</sup> GRADE STUDENTS  
IN RELATION TO THEIR SELF-CONFIDENCE**

*Submitted to the Pran Nath College (Autonomous) Khordha  
in partial fulfilment of the requirement for the Degree of  
Bachelor of Arts (Education Honours)*

**Submitted by:**

**Monalisha Tripathy**

**+3 Final Year Arts  
(Education Hons.)**

**College Roll No.: BA21-121**

**Examination Roll No.: 0403U21033**

**Regd. No.: 2101010590030090**

**Under the Esteemed Guidance of:**

**Dr. (Mrs) Shnupriya Rout**

**Reader in Department of Education**



**DEPARTMENT OF EDUCATION**

**PRANANATH COLLEGE (AUTONOMOUS)**

**KHORDHA, ODISHA**



*Dr.  
22/3/24*

*Pran  
22/3/24*

Dr. (Mrs.) Jishnupriya Rout  
M.A., Ph.D. in Education  
(Reader in Education)  
P.N. College (Autonomous), Khordha

## CERTIFICATE

This is to certify that the Dissertation entitled "A STUDY ON ACADEMIC ACHIEVEMENT OF 9<sup>TH</sup> GRADE STUDENTS IN RELATION TO THEIR SELF-CONFIDENCE" being submitted to P.N. College (Autonomous), Khordha by **Monalisha Tripathy** for the partial fulfillment of requirements for the award of Bachelor of Arts in Education (Hons.) done by her under my supervision and guidance in the academic year 2023- 24. The project is a genuine work and worthy of consideration for the award of the Bachelor of Arts in Education (Hons.) Degree.

*Jishnupriya Rout*  
Dr. (Mrs.) Jishnupriya Rout 22/03/24

Reader in Department of Education



*Monalisha*  
1-7-24  
Principal  
Pranmath College (Autonomous)  
Khordha

**A DISSERTATION REPORT ON  
USES OF SOCIAL MEDIA IN RECRUITMENT**

Submitted to the PRANANATH COLLEGE (Autonomous), Khordha  
AS A PARTIAL FULFILMENT OF DISSERTATION REQUIRED IN POST GRADUATE IN  
PERSONNEL MANAGEMENT AND INDUSTRIAL RELATION

(Session:2022-24)

Submitted by: - Abhipsa Sar

PG Final year PMIR

4<sup>th</sup> Semester

Roll No: - PR2203U001

College Roll no: - MA22-026

Under the Supervision of

Mr. Suryasmita Mohapatra

Examined  
[Signature]  
22-4-24



[Signature]  
1-7-24

PG Department of PMIR

Principal  
Pranathi College (Auton)  
Khordha

PRANATHI COLLEGE, AUTONOMOUS

KHORDHA, ODISHA



*A Project report on*

# **A STUDY ON INSURANCE SECTOR IN INCREASING FINANCIAL SUSTAINABILITY**

Submitted to the PRANANATH COLLEGE (Autonomous),  
Khordha in partial fulfillment of the requirement of the Bachelor Degree  
Examination in Commerce (finance)

**(Session:2022-23)**

**Submitted by:**

**IPSA SWAIN**

+3 Final year commerce(finance)

6<sup>th</sup> Semester

Roll No: 8003U20128 ✓

College Roll No: BC20-409

Regd. No: 2003010190030127

**Under the Supervision of**

**DR. B. B. ACHARYA**



*IPSA Swain*

*Dr. B. B. Acharya*  
*5-11-23*

**Department of Commerce**  
**PRANANATH COLLEGE, AUTONOMOUS**  
**KHORDHA, ODISHA**

*IPSA Swain*

# ***Business Plan***

***on***

## **GOU-SHUDDHI: A DAIRY BASED PRODUCTION**

*submitted to the Department of Commerce for the award of*

*Degree In Bachelor of Commerce (Honours)*

***(Session - 2021-2024)***

**Submitted By**

***Sumitra Behera***

**+3 Final Year Commerce (Honours)**

**6<sup>th</sup> Semester**

**Roll-No: 8003U21338**

**College Roll-No: BC21-136**

**Registration No: 2103010190030352**

**Under the Supervision of:**

***Dr. Sushil Kumar Pattanaik***

***Department of Commerce***



*Signature*  
17/24

**Department of Commerce** **Pranath College (Autonomous)**  
**Khordha**

**Principal**

**PRANANATH COLLEGE (AUTONOMOUS)**  
**KHORDHA, ODISHA.**



*A Project Report On*  
**SERVICES PROVIDED BY BANK THROUGH  
E-BANKING IN INDIA**

*submitted to the Pran Nath College (Autonomous) Khurdha  
in partial fulfilment for the requirement of the  
Bachelor's Degree Examination in Commerce (Honours)*

**(Session: 2017-2020)**

**Submitted by:**

**Abinash Mahapatra**  
**+3 Final Year Commerce (Hons.)**

**6<sup>th</sup> Semester**

**Roll No.: 8103U17006**

**College Roll No.: BC17-141**

**Guided by:**

**Dr. Swadesh Kumar Das**

**Lecturer**

**Department of Commerce**

*Signature of Internal Examiner*

*Signature of External Examiner*



*21/2/24  
17-24*

*Principal  
Pran Nath College (Auto)  
Khurdha*

**DEPARTMENT OF COMMERCE**  
**PRANANATH COLLEGE (AUTONOMOUS)**  
**KHORDHA, ODISHA**

**A PROJECT REPORT ON  
PERFORMANCE APPRAISAL SYSTEM PRACTICES:  
A STUDY ON WIPRO LIMITED**

**SUBMITTED TO THE PRANANATH COLLEGE (AUTONOMOUS), KHORDHA  
IN PARTIAL FULFILMENT OF THE BACHELORS OF BUSINESS  
ADMINISTRATION**

**(SESSION: 2023-24)**

**SUBMITTED BY:**

**BHAGYASHREE TRIPATHY  
COLLEGE ROLL NO: BBA21-025  
EXAM ROLL NO: BBA2103U005**

**GUIDED BY:**

**PROF. RASMITA BALLARSINGH**

**PGDM, M. Com**

**LECTURER**

**DEPARTMENT OF BUSINESS ADMINISTRATION**

Signature of Internal Examiner

Signature of External Examiner



*Principals  
1-7-24*

**Principal  
Pranath College (Aut  
Khordha**

**PRANATH COLLEGE (AUTONOMOUS)**

**KHORDHA, ODISHA**



A PROJECT REPORT ON

# MARKET SEGMENTATION

## A STUDY ON TATA MOTORS

SUBMITTED TO THE PRANANATH COLLEGE (AUTONOMOUS), KHORDHA

IN PARTIAL FULFILMENT OF THE BACHELORS OF BUSINESS

ADMINISTRATION

(SESSION: 2023-24)

SUBMITTED BY

**NITESH MITTAL**

REGD No:7169/21

ROLL NO: BBA2103U009

COLLEGE ROLL NO: BBA21-008

GUIDED BY

**Prof. Sangram Padhy**

PGDM, M.Com

LECTURER

DEPARTMENT OF BUSINESS ADMINISTRATION



*Handwritten signature in green ink, dated 1-7-24.*

Principal  
Pranath College (Autonomous)  
Khordha

**PRANANATH COLLEGE (AUTONOMOUS)**

**KHORDHA, ODISHA**



Signature of Internal Examiner

Signature of External Examiner



A PROJECT ON  
"CAFFEINE IN DIFFERENT TEA SAMPLES"

SUBMITTED BY:  
SASMITA PRADHAN  
+3 3<sup>RD</sup> YEAR SCIENCE

UNIVERSITY ROLL NO: 5303U17042  
ACADEMIC SESSION: 2017-2020

UNDER THE ESTEEMED GUIDANCE OF  
DR. PURNA CHANDRA BAISAKH  
SENIOR LECTURER  
DEPT. OF CHEMISTRY



*Pradhan*  
1.7.24  
Principal  
Pranath College (Autonomous)  
Khordha



**PRANATH COLLEGE, AUTONOMOUS,  
KHORDHA**

**PRANANATH AUTONOMOUS COLLEGE, KHORDHA**



A

**PROJECT REPORT ON**

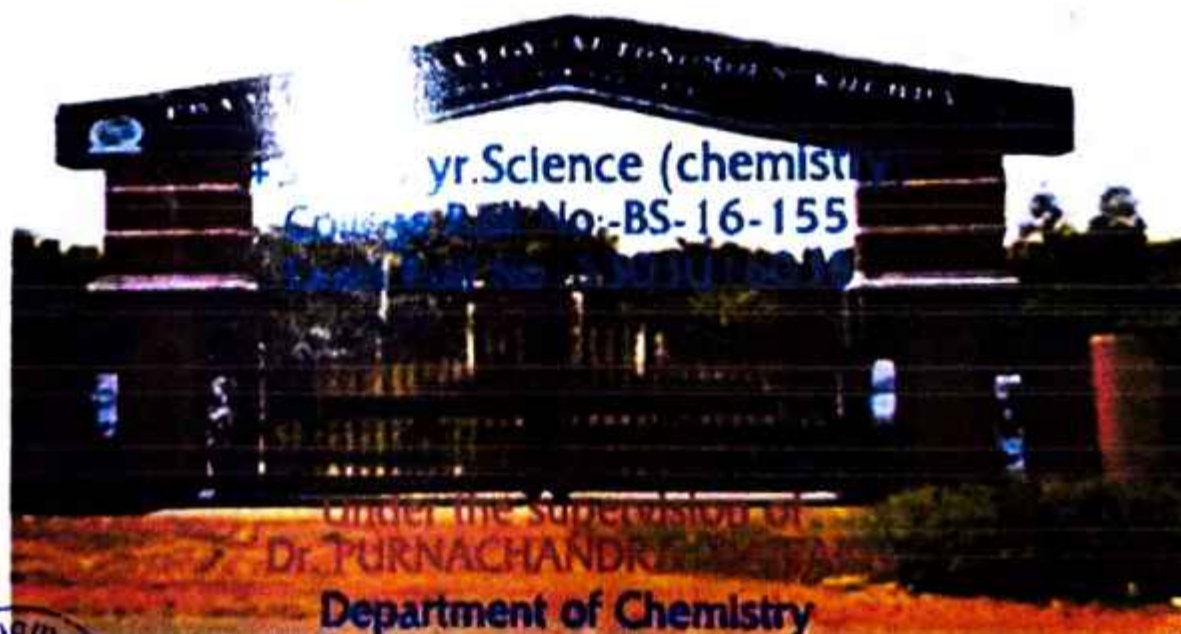
**"WASTE WATER TREATMENT TECHNOLOGIES"**

Dissertation submitted to the P.N. (Auto) College in partial fulfillment of the requirement of bachelor degrees Examination in chemistry.

**2016-2019**

**Submitted by**

**SAILENDRA MOHANTY**



A Project paper on

# "THE EFFECT OF STORAGE METHOD ON THE VITAMIN C CONTENT IN SOME TROPICAL FRUIT JUICES"



To the utkal university, vani vihar, Bhubaneswar, Odisha

for the partial fulfillment of the Bachelor Degree in Science (chemistry honours)

**PRANANATH COLLEGE (AUTONOMOUS), KHORDHA**

*Session: 2016-19*



*Submitted by:*

*Shruti Tripathy*

*Year science, chemistry*

*5th semester*

*Roll No.: 5303U16015*

*Under the Supervision of:*

*Dr. Mamata Pattnaik*

*Department of Chemistry*

*Shruti*  
*1.7.24*

*Principal*  
*Pranath College (Auton)*  
*Khordha*



# PRANANATH AUTONOMOUS COLLEGE



**KHORDHA**

Session-2021-24

## PROJECT REPORT ON BIODEGRADABLE POLYMERS & ITS APPLICATION

DEPARTMENT OF CHEMISTRY

Submitted By:

**MADHULITA BISWAL**

*+3 Final Year (Science)*

*Roll No:-BS(P)21-276*

*Regd No.-2102010390030076*

Under The Supervision:

**Dr.Priyabrata Mohanty**

*Reader in Chemistry*

*20/3/24  
1-7-24*

Principal  
Pranath College (Autonomous)  
Khordha



A Project report on  
**“Presence And Effect Of Pesticides On  
Fruits And Vegetables”**

Submitted by:  
**SUCHISHREE SAHOO**  
+3 Final Year Science  
Chemistry Honours  
Semester Roll No: 5303U16053  
Regd. No – 1602010390030259  
College Roll No : BS16-332

UNDER THE ESTEEMED GUIDANCE OF  
**Dr. Ajanta Satapathy**  
HOD in Chemistry



*Suchishree*  
17-24  
Principal  
Pranath College (Autonomous)  
Khurda

**PRANANATH AUTONOMOUS, COLLEGE,  
KHURDA, DIST - KHURDA**



# PRANANATH AUTONOMOUS COLLEGE



**KHORDHA**

Session-2021-24

## PROJECT REPORT ON BIODEGRADABLE POLYMERS & ITS APPLICATION DEPARTMENT OF CHEMISTRY

Submitted By:

**MADHULITA BISWAL**

**+3 Final Year (Science)**

**Roll No:-BS(P)21-276**

**Regd No.-2102010390030076**

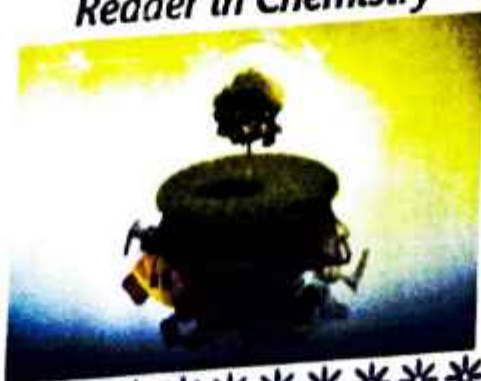
Under The Supervision:

**Ujjwala Mohanty**

**Reader in Chemistry**

*22/3/24  
1-7-24*

**Principal,  
Pran Nath College (Autonomous),  
Khordha**



**A PROJECT REPORT ON  
GRAPHENE**

Submitted for partial fulfilment of the degree of  
**Master's of science**

**In chemistry**

By

**AKANKHYA RATH**

Roll No.: CHE2203U001

College roll No.: MCH22-008

Under the Supervision of

**DR. PRATAP CHANDRA PATTANAİK**

(Reader in chemistry)



**Department of Chemistry**

**PRANANATH COLLEGE(AUTONOMOUS)**

**MUKUNDAPRASAD, KHORDHA**

*Pranath*  
1.7.24  
Principal  
Prananath College (Autonomous)  
Khordha



**A PROJECT REPORT**

**ON**

**EFFECTS OF CHEMICAL POLLUTANTS ON  
ENVIRONMENT AND HUMAN HEALTH**

Submitted in the partial fulfilment of the requirements for the degree

of

**MASTER OF SCIENCE**

in

**CHEMISTRY**

Submitted By:

**Prajna Priyadarshini**

Exam Roll No.: CHE2203U003

Under the guidance of

**Dr. Pratap Chandra Pattanaik**

READER IN CHEMISTRY



**DEPARTMENT OF CHEMISTRY  
PRANANATH COLLEGE (AUTONOMOUS)  
KHORDHA, ODISHA**



*Principals  
1.7.24*

**Principals  
Pranath College  
Khordha**



A Project report on  
**"Contents of Cold Drinks  
Available In The Market"**

**Submitted by:-**

**PRATISHRUTI DAS**

Chemistry Honours

Semester Roll No:-5303U17032

**UNDER THE ESTEEMED GUIDANCE OF  
PRIYABRATA MOHANTY**



Lecturer in Chemistry

*Pratishruti Das*  
17.04

Principal  
Pranath College (Autonomous)  
Khurda

**PRANANATH COLLEGE, (AUTONOMOUS)**

**KHURDA, DIST-KHURDA**



This is to certify that this project entitled "WEATHER FORECASTING WITH JS.NODE" submitted in partial fulfillment of the degree of B.Sc. in computer science to the Department of Computer Science, Pranath (Autonomous) College done by ALOK SAHOO, Registration No. 2002010490030093, Roll No. 5503U20004 is an authentic work carried out by her at "DEVTOWN" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*Samapika Pradhan*  
Signature of (Internal)

*[Signature]* 5.4.23  
Signature of the Examiner  
(External)

*[Signature]*

Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), khordha




*[Signature]*  
1.7.24  
Principal  
Pranath College (Autonomous)  
Khordha

## CERTIFICATE

This is to certify that this project entitled "WEATHER FORECASTING WITH JS.NODE" submitted in partial fulfillment of the degree of B.Sc. in computer science to the Department of Computer Science, Pranath (Autonomous) College done by ALOK SAHOO, Registration No. 2002010490030093, Roll No. 5503U20004 is an authentic work carried out by her at "DEVTOWN" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

Samapika Pradhan  
Signature of (Internal)

  
Signature of the Examiner  
(External)



Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khordha



  
1.7.24  
Principal  
Pranath College (Autonomous)  
Khordha

## CERTIFICATE

This is to certify that this project entitled "DATA SCIENCE AND ANALYTIC TECHNOLOGY IN AGRICULTURE" submitted in partial fulfillment of the degree of B.Sc in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Jyoti Ranjan Pradhan, Registration No. 2002010490030116, Roll No. 5503U20027 is an authentic work carried out by him at "Northropio Technologies Pvt Ltd" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

EXT: *12/05/23*  
Signature of the Examiner  
Internal Remark Pradhan  
*Pradhan*

*L. S. Rai*

Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khordha

*Pradhan*  
*1-7-24*  
Principal  
Pranath College (Autonomous),  
Khordha



## CERTIFICATE

This is to certify that this project entitled - **DHCP SERVER FOR DYNAMIC IP ADDRESSING.** submitted in partial fulfillment of the degree of B.Sc.in computer science to the Department of Computer Science, Pranath (Autonomous) College done by **Chandrakanta Badajena**, Registration No. 2002010490030104 Roll No 5503U20015 is an authentic work carried out by her at "**Persistent Network Pvt. Ltd., BBSR, Odisha**" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*External* 15.4.23  
Signature of the Examiner

*External*  
*Internal* Lamapika Pradhan

*[Signature]*  
Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khordha

*External*  
1.7.24  
Principal  
Pranath College (Autonomous)  
Khordha



## CERTIFICATE

This is to certify that this project entitled "LEAF DISEASE DETECTION SYSTEM" submitted in partial fulfillment of the degree of B.Sc. in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Roshan Sharma, Registration No - 2002010490030123, Roll No - 5503U20034 is an authentic work carried out by her at "software company name" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion, it has reached the standard needed for submission.

*Roshan Sharma*  
5.4.23  
Signature of the Examiner

*Roshan Sharma*  
*Pranath*

*Ramapika Pradhan*

*Mr. Lala Sunil Kumar Rai*

Signature of the HOD

*Pranath*  
1-7-24

Principal  
Pranath College (Autonomous)  
Khurda

Mr. Lala Sunil Kumar Rai  
HEAD OF DEPARTMENT  
Department of Computer Science  
Pranath College (autonomous), Khurda



## CERTIFICATE

This is to certify that this project entitled "SHIP HARBOUR" submitted in partial fulfillment of the degree of B.Sc in computer science to the Department of Computer Science, Pranath (Autonomous) College done by SIBANI PURSTY , Registration No .2002010490030131, Roll No. 5503U20042 is an authentic work carried out by her at "NORTHTROPIO TECHNOLOGIES Pvt.ltd " under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*[Handwritten Signature]*  
EXT! - Signature of the Examiner  
5-7-23

INT! - *Laxmapike Preetan*

*[Handwritten Signature]*

Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khordha

*[Handwritten Signature]*  
1-7-24

**Principel**  
**Pranath College (Autonomous)**  
**Khordha**



## CERTIFICATE

This is to certify that this project entitled "SMART CITY" submitted in partial fulfillment of the degree of B.Sc. in computer science to the Department of Computer Science, Pranathi (Autonomous) College done by Sardar Saifque Ali Khan, Registration No. 2002010490030127, Roll No. 5503U20038 is an authentic work carried out by her at "Northropio Technologies Pvt. Ltd." under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*Sardar Saifque Ali Khan*  
Signature of the Examiner

External

Internal

*Sardar Saifque Ali Khan*

5.04.23

*L. S. K. Rai*  
Signature of the HOD

Mr. Lala Sunil Kumar Rai  
HEAD OF DEPARTMENT  
Department of Computer Science  
Pranathi College (autonomous), Khordha

*Pranathi*  
1-7-24  
Principal  
Pranathi College (Autonomous)  
Khordha






# CERTIFICATE

This is to certify that this project entitled "ENTERPRISERESOURCEPLANNING (ERP) MAHAVIDYALAYA" submitted in partial fulfillment of the degree of B.Sc.in computer science to the Department of Computer Science, Pran Nath (Autonomous) College done by AJAY KUMAR BEHERA, Registration No.2002010490030091 . Roll No.5503U/20002 is an authentic work carried out by him at "NORTHOP I/O TECHNOLOGIES PVT LTD" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

  
Signature of the Examiner 5.4.23

External

Internal   
5.04.23

  
Signature of the HOD

Mr. Lala Sunil Kumar Rai  
HEAD OF DEPARTMENT  
Department of Computer Science  
Pran Nath College (Autonomous), Khordha

  
1.7.24  
Principal  
Pran Nath College (Autonomous)  
Khordha



## CERTIFICATE

This is to certify that this project entitled "WOMENIA" submitted in partial fulfillment of the degree of B.Sc.in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Suchitra Maharana , Registration No. 2002010490030142 Roll No 5503U20053 is an authentic work carried out by her at "Northropio Technologies Pvt. Ltd" under our guidance and is worthy of acceptance for award of the degree The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission

External *Signature* 5.4.23  
Internal *Samapika Pradhan*  
Signature of the Examiner

*Signature*

Signature of the HOD

Mr. Lala Sunil Kumar Rai  
HEAD OF DEPARTMENT  
Department of Computer Science  
Pranath College(autonomous), Khordha

*Signature*  
1.7.24  
Principal  
Pranath College (Autonomous)  
Khordha



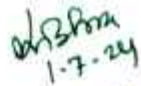
## CERTIFICATE

This is to certify that this project entitled "PAYROLL MANAGEMENT SYSTEM" submitted in partial fulfillment of the degree of B.Sc. in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Your **Dinesh Raj Sahoo**, Registration No. 2002010490030111, Roll No. 5503U20022 is an authentic work carried out by her at "Computer Application Center, BBSR, Odisha" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

  
Signature of the Examiner  
External  
Internal **Laxmapike Pradhan**  
5.4.23

  
Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khordha

  
Principal  
Pranath College (Autonomous)  
Khordha  
1-7-24



# CERTIFICATE

This is to certify that this project entitled "TRAVEL AND TOURISM MANAGEMENT SYSTEM" submitted in partial fulfilment of the degree of B.Sc. computer science to the Department of Computer Science, Pranath College (Autonomous) done by Debasish Sahu, Registration No. 2002010490030105, Roll No.5503U20016 is an authentic work carried out under our guidance and is worthy of acceptance for award of the degree. The work fulfils the entire requirement as per the regulation of the University and in our opinion, it has reached the standard needed for submission.

External  
Internal

*Debasish Sahu*  
5.11.23

Signature of the Examiner

*Samapika Pradhan*

*ASR*

Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (Autonomous), Khordha



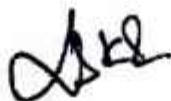
*Debasish Sahu*  
1.7.24  
**Principal**  
**Pranath College (Autonomous)**  
**Khordha**

# CERTIFICATE

This is to certify that this project entitled "ALL IN ONE PORTAL" submitted in partial fulfillment of the degree of B. Sc. in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Himanshu Biswal, Registration No.2002010490030115, Roll No.5503U20026 is an authentic work carried out under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion, it has reached the standard needed for submission.

  
External: Signature of the Examiner  
5.4.23

Internal: - Lamapika Pradhan  
5.04.23



Signature of the HOD

Mr. Lala Sunil Kumar Rai  
HEAD OF DEPARTMENT  
Department of Computer Science  
Pranath College (autonomous), Khordha



  
1.7.23  
Principal  
Pranath College (Autonomous),  
Khordha

# CERTIFICATE

This is to certify that this project entitled "AGRO SHOP-FARMER'S ONLINE SELLING PLATFORM" submitted in partial fulfillment of the degree of B.Sc in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Deva Prasad Mishra, Registration No.2002010490030107, Roll No.5503U20018 is an authentic work carried out by him at "Northop I/O Technologies Pvt Ltd" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*External* Signature of the Examiner *5.4.23*  
*Internal* Ramapika Pradhan

*[Signature]*

Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College(autonomous), khordha

*[Signature]*  
*1-7-24*  
**Principal**  
Pranath College (Autonomous)  
Khordha



# CERTIFICATE

This is to certify that this project entitled "Online food ordering system" submitted in partial fulfillment of the degree of B.Sc in computer science to the Department of Computer Science, Pranath (Autonomous) College done by Dhritiman Biswal, Registration No. 2002010490030108, Roll No.5503U20019 is an authentic work carried out by her at "Computer Application Centre, BBSR, Odisha" under our guidance and is worthy of acceptance for award of the degree. The work fulfills the entire requirement as per the regulation of the University and in our opinion it has reached the standard needed for submission.

*Patiraj Das*  
Signature of the Examiner  
External  
Internal *Sampika Pradhan*

*Lala Sunil Kumar Rai*  
Signature of the HOD

**Mr. Lala Sunil Kumar Rai**  
**HEAD OF DEPARTMENT**  
Department of Computer Science  
Pranath College (autonomous), Khurda

*Prin*  
*1.7.24*  
Principal  
Pranath College (Autonomous)  
Khurda



PROJECT ON  
**TRANSPORTATION**  
& ASSIGNMENT PROBLEMS

2023



PRANANATH AUTONOMOUS COLLEGE  
KHORDHA



UTKAL UNIVERSITY  
VANI VIHAR, BHUBANESWAR

BY: ARCHANA BISWAL

*Archana Biswal*

*Archana*  
25.6.24

Principal  
Pranmath College (Autonomous)  
Khordha



# PROJECT ON GAME THEORY

PAPER: DSE IV



SUBMITTED BY: ASISH KUMAR PATRA

ROLL NO: 5603U20004

COLLEGE

PRANANATH AUTONOMOUS COLLEGE, KHORDHA

UNIVERSITY

UTKAL UNIVERSITY, VANI VIHAR, BHUBANESWAR



# 2023

*Asish*  
25.6.24  
Principal  
Prananath College (Auton.)  
Khordha

# PROJECT REPORT ON NUMERICAL INTEGRATION



Submitted to Department of Mathematics, Pran Nath college  
Autonomous, Khordha for Bachelor Degree examination in mathematics (Hons)

Under The Supervision Of  
**Prof. Narayan Baliyarsingh**  
H.O.D Department Of Mathematics

Submitted By:

**BISHNUPRIYA PRADHAN**

**+3 Final Year Science**

**Mathematics (Hons)**

**College Roll No: BS20-440**

**UGC Roll No-5603U20005**

**Pran Nath College (Auto), Khordha**



Department Of Mathematics  
Pran Nath College (Autonomous), Khordha

*Pran Nath*

*Pran Nath*  
25.6.24

Principal  
Pran Nath College (Autonomous)  
Khordha

2023

Project On

# LINEAR EQUATIONS

## AND ITS APPLICATION

PRESENTED BY: BISWAJIT SAHOO

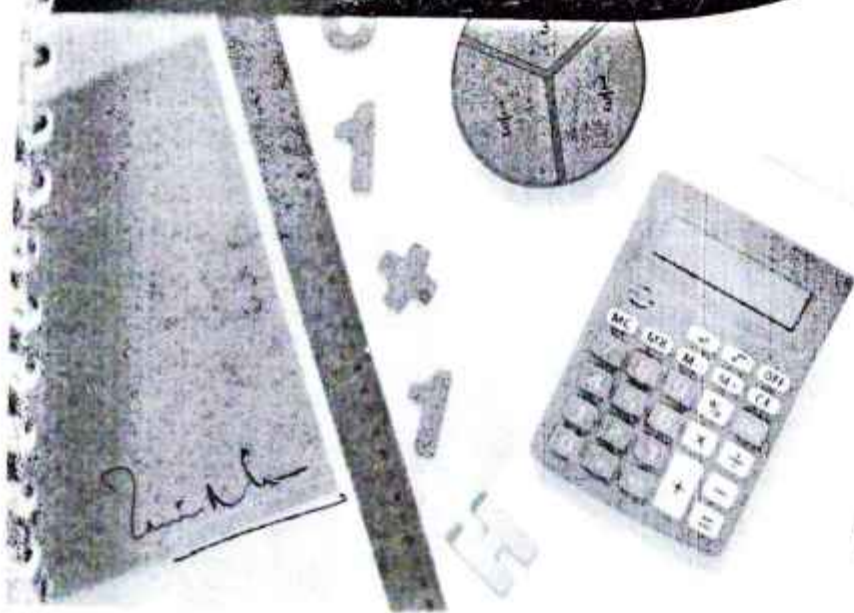
ROLL NO. 5603U20006

*Pranath*  
25.6.24

Principal  
Prananath College (Autonomous)  
Khordha

PRANANATH AUTONOMOUS  
COLLEGE, KHORDHA

UTKAL UNIVERSITY  
VANI VIHAR, BHUBANESWAR



**A PROJECT PAPER ENTITLED  
TRANSPORTATION PROBLEM**



*Submitted to Utkal University Vani Vihar, Bhubaneswar, Odisha for The  
Partial Fulfillment Of The Bachelor Degree in science mathematics (Hons)*

**PRANANATH COLLEGE (AUTONOMOUS), KHORDHA  
6<sup>TH</sup> SEMESTER**



Submitted By:

**BISWAPRIYA MALLICK**

**+3 Final Year Science**

**Mathematics (Hons)**

**College Roll No: BS20-241**

**UGC Roll No-5603U20007**

**Prananath College(Auto), Khordha**

*25.6.24*  
**Principal  
Prananath College (Autonomous)  
Khordha**

*Prinath*

**A**  
**PROJECT**  
ON  
**"NUMERICAL METHODS"**

*Session-2020-23*

Submitted By:

**CHINMAYA BEHERA**

**+3 FINAL YEAR, SCIENCE  
MATHEMATICS HONS.**

**COLLEGE ROLL-BS(P)20-259**

**UNIVERSITY ROLL NO:-5603U20008**



*Chinmaya*  
*25.6.24*  
Principal  
Pran Nath College (Autono:  
Khordha

**DEPARTMENT OF MATHEMATICS**  
**PRANANATH COLLEGE(AUTONOMOUS),KHORDHA**  
**PIN-752057,ODISHA**

*Chinmaya*

# PRANANATH AUTONOMOUS COLLEGE, KHORDHA



## DEPARTMENT OF MATHEMATICS PROJECT ON LINEAR PROGRAMMING PROBLEM

Submitted by  
Debashis Baliyarsingh  
B.Sc.(mathematics)  
Roll No: 5603U20009

UTKAL UNIVERSITY, VANI VIHAR

BHUBANESWAR 2023

*Principal*  
25.6.24

Principal  
Pranath College (Autonomous)  
Khordha

*Debashis Baliyarsingh*

# A PROJECT ON "GROUP THEORY"

• Dissertation submitted to Utkal University in particular  
fulfilment of the required of the Bachelor's Degree Test  
( 2020-2023)

Submitted by

GAGAN SAHOO

Roll. 5603U20010

Under supervision of

DR. NARAYAN BALIARSINGH



Department of Mathematics

PRANANATH AUTONOMOUS COLLEGE

KHORDHA, ODISHA

*Gagan Sahoo*

*Principals*  
25.6.24  
Principal  
Pran Nath College (Autonomous)  
Khordha

# A PROJECT REPORT ON NUMERICAL INTEGRATION



*Submitted to Department of Mathematics, Pran Nath college  
Autonomous, Khordha for Bachelor Degree examination in mathematics (Hons)*

Under The Supervision Of  
**Prof. Narayan Baliyarsingh**  
H.O.D Department Of Mathematics

Submitted By:

GURU PRASAD NAYAK

+3 Final Year Science

Mathematics (Hons)

College Roll No: BS(P)20-434

UGC Roll No- 5603U20011

Pran Nath College(Auto), Khordha



Department Of Mathematics  
Pran Nath College (Autonomous), Khordha

*Pr. Nayak*  
25.6.24  
Principal  
Pran Nath College (Auto)  
Khordha



**A**

# **PROJECT**

ON

**"FIRST ORDER FIRST DEGREE  
DIFFERENTIAL EQUATION"**

**DEPARTMENT OF MATHEMATICS**

*6<sup>th</sup> semester*



Dissertation Submitted to the P.N College  
(Autonomous), Khordha in partial Fulfillment of the  
Requirement of the Bachelor Degree in Mathematics (Hons).



Submitted By:

**JIGYANSU RANJAN KANHAR**

**+3 FINAL YEAR ,SCIENCE**

**MATHEMATICS (HONS.)**

**COLLEGE ROLL-BS(P)20-157**

**UNIVERSITY ROLL NO:-5603U20012**

*Jigyanu Kanhar*

*Prin. Kanhar  
25.6.24*

**Principal  
Pranathi College (Autonomous)  
Khordha**

PROJECT REPORT ON

# OPTIMIZATION OF A LINEAR OBJECTIVE FUNCTION WITH EXAMPLES

PAPER : DSE(IV)

PRANANATH COLLEGE (AUTONOMOUS)  
KHORDHA, ODISHA

UTKAL UNIVERSITY, VANI VIHAR  
BHUBANESWAR

PRESENTED BY

**JIKUN KUMAR PANDA**

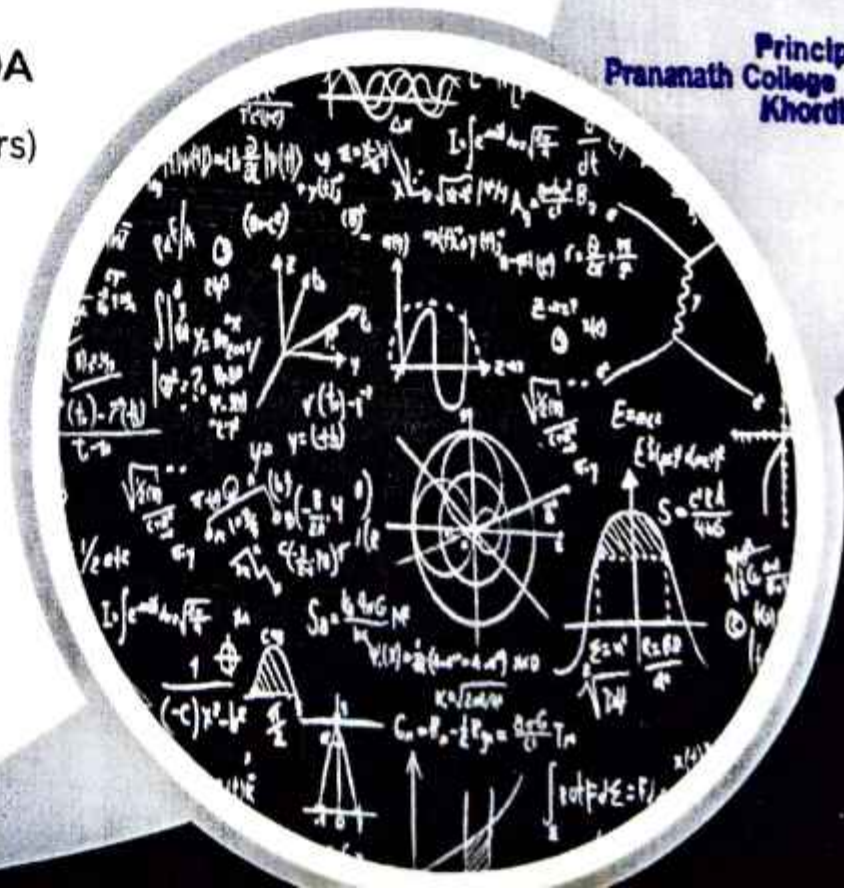
BSc Mathematics (Honours)

Roll no: 5603U20013

*Dr. J. K. Panda*  
25.6.24

Principal  
Prananath College (Autonomous)  
Khordha

*J. K. Panda*



2023

# LINEAR EQUATION

AND ITS APPLICATION



**PRESENTED BY**

JOGESH KUMAR DAS  
ROLL NO. 5603U20014

*Pranath*  
25.6.24

Principal  
Prananath College (Autonomous)  
Khordha

PRANANATH AUTONOMOUS  
COLLEGE, KHORDHA

UTKAL UNIVERSITY,  
VANI VIHAR, BHUBANESWAR

*Jogesh Kumar Das*

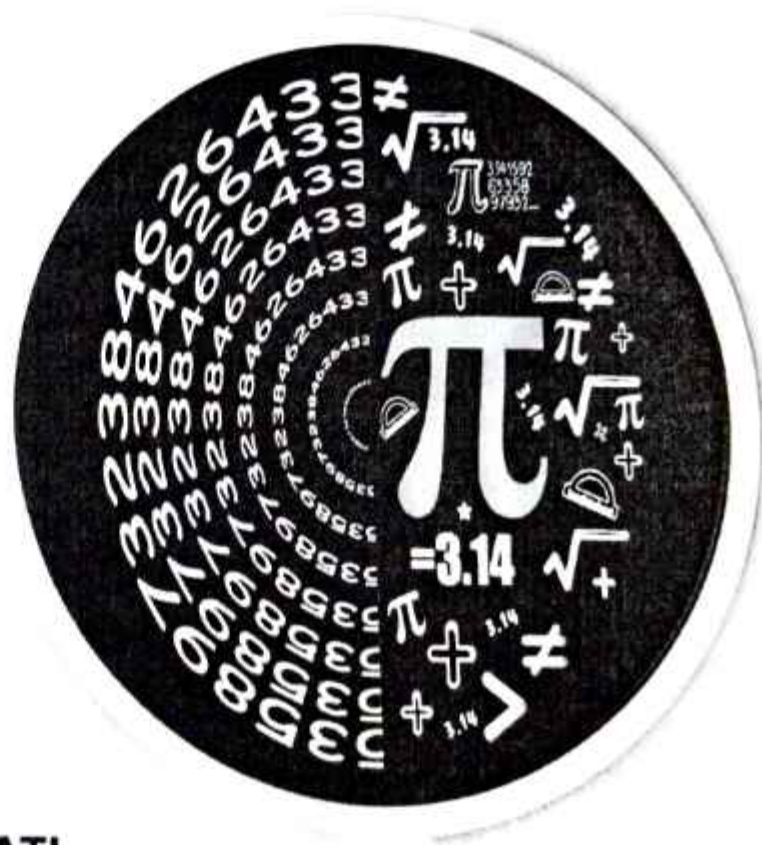


A PROJECT REPORT ON  
**SYSTEM OF FIRST ORDER DIFFERENTIAL EQUATIONS**  
**USING MATLAB**

PAPER : DSE(IV)

PRANANATH COLLEGE (AUTONOMOUS)  
 KHORDHA, ODISHA

UTKAL UNIVERSITY, VANI VIHAR  
 BHUBANESWAR



PRESENTED BY  
**KRISHNA KUMAR PRAJAPATI**

BSc Mathematics (Honours)

Roll no: 5603U20015

*Principals*  
 25.6.24

**Principal**  
**Pran Nath College (Autonomous)**  
**Khordha**

**A**  
**PROJECT**  
ON  
**VECTOR CALCULUS**  
&  
**IT'S APPLICATIONS**

*Session-2020-23*

Submitted By:

*LAXMIDHAR LENKA*

*+3 Final Year, science*

*MATHEMATICS HONS.*

*College Roll-BS(P)20-467*

*University Roll No:-5603U20016*



**DEPARTMENT OF MATHEMATICS**  
**PRANANATH COLLEGE(AUTONOMOUS),KHORDHA**  
**PIN-752057,ODISHA**

*Laxmidhar Lenka*

*Def. by  
25.6.24  
Principal  
Pran Nath College (Auton)  
Khordha*

# PRANANATH AUTONOMOUS COLLEGE, KHORDHA



## DEPARTMENT OF MATHEMATICS PROJECT ON LINEAR PROGRAMMING PROBLEM

Submitted by  
Prabhata Paikaray  
B.Sc.(mathematics)  
Roll No:5603U20019

UTKAL UNIVERSITY, VANI VIHAR  
BHUBANESWAR 2023

BhBhm  
25.8.24

Principal  
Pranath College (Autonomous)  
Khordha

*Prabhata Paikaray*

# PRANANATH AUTONOMOUS COLLEGE



A

Project Report on

**LINER PROGRAMMING PROBLEMS**

A Project Submitted in Partial fulfillment  
for the Degree of

**BACHELOR OF SCIENCE IN  
MATHEMATICS**

Under the Guidance of : <b>Prof. Narayan Baliarsingh</b> Head of Department of Mathematics	Submitted by <b>Premchand Pradhan</b> Roll No. - 5603U20020
---	---



*Pr. Chandra*  
25.6.24  
Principal  
Prananath College (Autonomous)  
Khordha

**UTKAL UNIVERSITY, VANIVIHAR**

*Pr. Chandra*

2023

PAPER: DSE IV



PROJECT ON  
**TRANSPORTATION**  
& ASSIGNMENT PROBLEMS

PROJECT BY

PRIYARANJAN NAYAK

ROLL NO. 5603U20021

*Prin. Khordha*  
25.6.24

**Principal**  
Pranath College (Autonomous)  
Khordha

---

PRANATH AUTONOMOUS COLLEGE  
KHORDHA

UTKAL UNIVERSITY  
VANI VIHAR, BHUBANESWAR

*Priyaranjan Nayak*



**PRANANATH (AUTONOMOUS) COLLEGE, KHORDHA**



**KHORDHA**

**PROJECT ON  
SYSTEM OF FIRST ORDER DIFFERENTIAL  
EQUATIONS BY EXPONENTIAL MATRIX  
FUNCTION USING MATLAB**

**PAPER : DSE (IV)**

**By**

**PUJARANI SWAIN**

**B.Sc. (Mathematics)**

**Roll No – 5603U20022**

*Ch. Swain.  
25.6.24*

**Principal  
Pranath College (Autonomous)  
Khordha**

**P.N. COLLEGE (AUTONOMOUS), KHORDHA**

**ODISHA**

**UTKAL UNIVERSITY, VANI BIHAR**

**BHUBANESWAR**

*Swain*

# A PROJECT REPORT ON NUMERICAL INTEGRATION



PRANATH COLLEGE (AUTONOMOUS)

*Submitted to Department of Mathematics, Pranath college  
Autonomous, Khordha for Bachelor Degree examination in mathematics (Hons)*

**Under The Supervision Of**  
**Prof. Narayan Baliyarsingh**  
H.O.D Department Of Mathematics

Submitted By:

**RAHIM KABASI**

**+3 Final Year Science**

**Mathematics (Hons)**

**College Roll No:BS20-185**

**UGC Roll No-5603U20023**

**Pranath College(Auto),Khordha**



**Department Of Mathematics**

**Pranath College (Autonomous),Khordha**

*25.6.24*

**Principal  
Pranath College (Autonomous)  
Khordha**

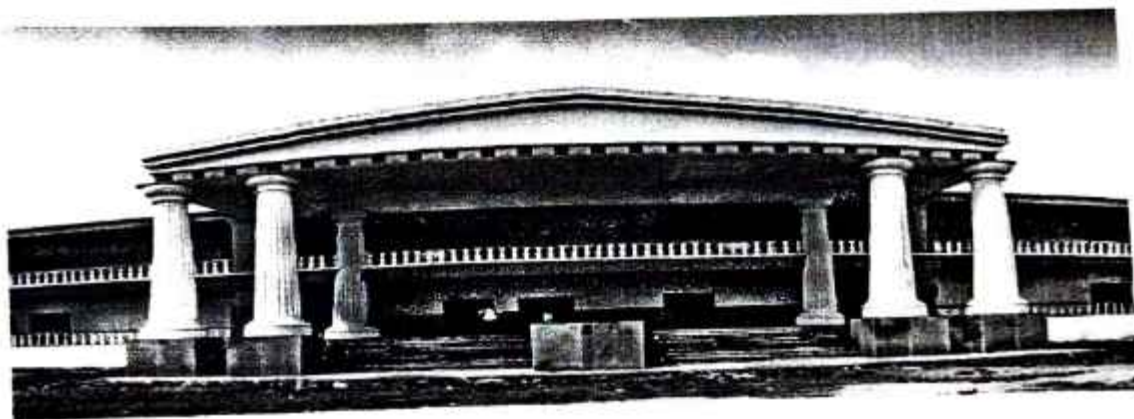
*Rahim Kabasi*

**A PROJECT PAPER ENTITLED  
TRANSPORTATION PROBLEM  
(ODISHA)**



Submitted to Utkal University, Vani Vihar, Bhubaneswar, Odisha for  
the partial fulfillment of the Bachelor Degree in Science  
(MATHEMATICS HONS.)

**PRANANATH COLLEGE (AUTONOMOUS), KHORDHA**



**SUBMITTED BY:**

**RINUBALA BEHERA**

**+3 Final Year Science, MATH (Hons.)**

**6th Semester**

**Roll No. 5603U20025**

*Prin*  
25.6.24

Principal  
Prananath College (Au  
Khordha

*Rinubala*



PROJECT ON  
TRANSPORTATION  
& ASSIGNMENT PROBLEMS

*Udit*  
25.6.21  
Principal  
(Autonomous)

PAPER: DSE IV  
2023

BY: UDIT NARAYAN SAHOO  
ROLL NO. 5603U20033

COLLEGE  
PRANANATH AUTONOMOUS COLLEGE, KHORDHA  
UNIVERSITY  
UTKAL UNIVERSITY, VNI VIHAR, BHUBANESWAR

*Udit*

**PRANANATH AUTONOMOUS COLLEGE,  
KHORDHA**



*A  
PROJECT REPORT*

*ON*

***"NUMERICAL METHOD"***

*SESSION 2022-23*

*Dissertation submitted to pranmath Autonomous College,  
Khordha in partial fulfilment of the requirement of  
Bachelor Degree Examination in Mathematics*

**SUBMITTED BY**

**SUNIL MOHAPATRA  
+3 FINAL YEAR SCIENCE**

**MATHEMATICS HONOURS**

**ROLL NO:-BS-20-145**

**EXAMINATION ROLL NO- 5603U20032**

*Dr. S. M.  
25.6.24*

**Principal  
Pranmath College (Autonomous)  
Khordha**

*Sunil Mohapatra*

# PRANANATH COLLEGE (AUTONOMOUS)



**KHORDHA**

PROJECT REPORT ON

Numerical Analysis, Interpolation & Its Application And  
Numerical Integration Using Matlab

**DEPARTMENT OF MATHEMATICS**

**6<sup>TH</sup> SEMESTER**

*Dissertation Submitted to the P.N College (Autonomous), Khordha in the  
Partial Fulfillment of the Requirement of the Bachelor Degree Examination in  
Mathematics (Hons)*



Submitted By:

**Sourav Panda**

**+3 Final Year Science**

**Mathematics (Hons)**

**College Roll No:BS20-254**

**UGC Roll No-5603U20029**

**Prananath College(Auto).Khordha**

*Principal*  
*25.6.24*  
**Principal**  
**Prananath College (Autonomous)**  
**Khordha**

*Sourav Panda*



**KHORDHA**

**PROJECT REPORT ON**  
**FIRST ORDER FIRST DEGREE**  
**DIFFERENTIAL EQUATION**  
**DEPARTMENT OF MATHEMATICS**  
**6<sup>TH</sup> SEMESTER**

*Dissertation Submitted to the P.N College (Autonomous), Khordha in The  
Partial Fulfillment Of The Requirement of the Bachelor Degree Examination in  
Mathematics (Hons)*



Submitted By:

**SUMANTA JALI**

**+3 Final Year Science**

**Mathematics (Hons)**

**College Roll No:BS20-186**

**UGC Roll No-5603U20031**

**Prananath College(Auto),Khordha**

*Prin*  
*25.6.24*  
**Principal**  
**Prananath College (Auton)**  
**Khordha**

*Sumanta Jali*

PRANANATH AUTONOMOUS  
COLLEGE, KHORDHA



DEPARTMENT OF MATHEMATICS  
PROJECT ON  
LINEAR PROGRAMMING PROBLEM

Submitted by  
Soumya Ranjan Mishra  
B.Sc.(mathematics)  
Roll No:5603U20028

UTKAL UNIVERSITY, VANI VIHAR  
BHUBANESWAR 2023

*Soumya Ranjan Mishra*

*Dr. S. K. Mishra*  
25.6.24  
Principal  
Prananath College (Autonomous)  
Khordha



**A PROJECT ON "GROUP THEORY"**  
Dissertation submitted to Utkal University in particular  
fulfilment of the required of the Bachelor's Degree Test  
(2020-2023)

Submitted by  
SOUMENDRA SAMADARSHEE  
Roll. 5603U20027

Under supervision of  
DR. NARAYAN BALIARSINGH



Department of Mathematics  
PRANATH AUTONOMOUS COLLEGE  
KHORDHA, ODISHA

*[Handwritten signature]*

*25.6.24*  
Principal  
Pranath College (Auton)  
Khordha

**UNFOLDING PNB SCAM**  
**A CASE STUDY ON PUNJAB NATIONAL BANK SCAM**

A Dissertation to be submitted to  
**Prananath Autonomous College**  
**Khordha**

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

**Master in Commerce**

Submitted By

**Debashree Maharana**

**MC2003U005**



*Examined*  
*Bisoi*  
*22/03/22*

Guided By

**Prof. Chiranjibi Bisoi**

**Lecturer, PG Department of Commerce**

**Prananath Autonomous College,**

**Khordha**



*alishu*  
**Principal**  
**Prananath College (Autonomous)**  
**Khordha**

## CERTIFICATE

This is to certify that the work in the dissertation entitled "UNFOLDING THE PNB SCAM" submitted by Debashree Maharana bearing roll no. MC2003U005 in partial fulfillment of the requirements for the award of Master in Commerce to Pranath Autonomous College of Khordha is a bona-fide work carried out by her under my supervision and guidance. To the best of my knowledge and belief, this work has not been submitted to any other university or institution for the award of any degree. In my opinion the dissertation work fulfills the requirement of regulations relation to the nature and standard of work for Master in Commerce.

*Chiranjibi Bisoi*  
Prof. Chiranjibi Bisoi 22/03/22

Lecturer, PG Department of Commerce

Pranath Autonomous College, Khordha

*Wishu*  
Principal  
Pranath College (Autonomous),  
Khordha



# A STUDY ON THE IMPACT OF DEMONETIZATION ON E - COMMERCE

A Dissertation to be submitted to  
**Prananath College (Autonomous),  
Khordha**

In partial fulfillment of the requirements for the award of the degree of  
**Master in Commerce**

Submitted By

**Jyotirmayee Pattanaik  
MC2003U008**



Guided By

**Prof. Nirupama Sahoo,  
Lecturer , PG Dept. of Commerce,  
Prananath College (Autonomous),  
Khordha**

*N.S.*  
Principal  
Prananath College (Autonomous)  
Khordha

Examined  
*N. Sahoo*  
22/3/22



## CERTIFICATE

This is to certify that the work in the dissertation entitled "A STUDY ON THE IMPACT OF DEMONETIZATION ON E-COMMERCE" submitted by Jyotirmayee Pattanaik bearing Roll no. MC2003U008 in partial fulfillment of the requirements for the award of Master in Commerce to Pranath College (Autonomous), Khordha is a bona-fide work carried out by her under my supervision and guidance. To the best of my knowledge and belief, this work has not been submitted to any other university or institution for the award of any degree. In my opinion the dissertation work fulfills the requirement of regulations relation to the nature and standard of work for Master in Commerce.

*Nirupama Sahoo*  
22/3/22  
Prof. Nirupama Sahoo  
Lecturer, PG Dept. of Commerce,  
Pranath College (Autonomous),  
Khordha

*[Signature]*  
Principal  
Pranath College (Autonomous),  
Khordha



AN ASSESSMENT IN IMPERICAL ANALYSIS COFFEE GROWING  
INDUSTRY AND CASE STUDY OF KORAPUT COFFEE.

A Dissertation to be submitted to  
**Prananath College (Autonomous)**  
**Khordha**

in partial fulfillment of the requirements for the award of the  
Degree of **MASTER IN COMMERCE**

**Submitted By**  
**PRAVEJ KUMAR MEDINIRAY**  
**MC2103U008**



*WBA*  
Principal  
Pranath College (Autonomous)  
Khordha

*Examined*  
*Bisoi*  
*25/01/23*



**Guided By**  
**Prof. CHIRANJIBI BISOI**  
Lecturer, PG Department Of Commerce  
Pranath College (Autonomous)  
Khordha

## CERTIFICATE

This to certify that the work in the thesis entitled-' IN IMPERICAL ANALYSIS COFFEE GROWING INDUSTRY AND CASE STUDY OF KORAPUT COFFEE' submitted by Pravej Kumar Mediniray bearing Roll no.MC2103U008 in the partial fulfillment of the requirements for the award of master of commerce to Pranath College(Autonomous) of Khordha is a bona-fied work carried out by her under my supervision and Guidance. To the best of my knowledge and belief, this work has not been submitted to any other institution or the University for award of any Degree. In my opinion the dissertation work fulfills the requirement of regulations relation to the nature and standard of work for Master of Commerce.

*Chiranjibi Bisoi*  
Prof. Chiranjibi Bisoi 29/01/23

Lecturer

PG Department of Commerce

Pranath College(Autonomous)

Khordha

*[Signature]*

Principal  
Pranath College (Autonomous)  
Khordha



**"ELECTRIC VEHICLES IN INDIA - AN INVESTMENT  
OUTLOOK"**

**A**

**DISSERTATION SUBMITTED TO  
PRANANATH COLLEGE (AUTONOMOUS), KHURDA  
UTKAL UNIVERSITY**

**IN**

**PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE AWARD OF  
DEGREE OF MASTER IN COMMERCE**

**Submitted by:**

**SURESH MAHARANA**

**Batch: 2021-23, Roll No.: MC2103U015**



**Guided By:**

**Prof. Nirupama Sahoo  
Lecturer, P.G. Dept. of Commerce  
Pranath (Autonomous) College, Khordha**

*Examined*  
*N. Sahoo*  
*25/1/23*



*Principal*  
**Pranath College (Autonomous),  
Khordha**



## CERTIFICATE

This to certify that the work in the thesis entitled-"ELECTRIC VEHICLES IN INDIA - AN INVESTMENT OUTLOOK" submitted by Suresh Maharana bearing Roll No. MC2103U015 in the partial fulfillment of the requirements for the award of master of commerce to Pranath College(Autonomous) of Khordha is a bonafide work carried out by her under my supervision and Guidance. To the best of my knowledge and belief, this work has not been submitted to any other institution or the University for award of any Degree. In my opinion the dissertation Work fulfills the requirement of regulations relation to the nature and standard of Work for Master of Commerce.

*Nirupama Sahoo*  
25/01/23  
Prof. Nirupama Sahoo  
Lecturer, PG Department of Commerce  
Pranath College(Autonomous)  
Khordha

*Principal*  
Pranath College (Autonomous)  
Khordha

