



Programme name	Program Code	List of students undertaking project work/field work/internship
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Education	KDCN/EDN/001	BIJAY KUMAR DEHURI
Education	KDCN/EDN/001	BIRANG TIU
Education	KDCN/EDN/001	CHUMKIRANI DEHURI
Education	KDCN/EDN/001	DEBABRATA DAS
Education	KDCN/EDN/001	DIPTIRANJAN GHADEI
Education	KDCN/EDN/001	HAREKRUSHNA SA
Education	KDCN/EDN/001	JOSMITA HEMBRAM
Education	KDCN/EDN/001	JYOTIREKHA BEHERA
Education	KDCN/EDN/001	JYOTISMITA BEHERA
Education	KDCN/EDN/001	KAMALINI SANKHUA
Education	KDCN/EDN/001	LIPSA PRIYADARSINI PUHAN
Education	KDCN/EDN/001	MALLISING DEOGAM
Education	KDCN/EDN/001	PRASANTA KUMAR BEHERA
Education	KDCN/EDN/001	PRATIKSHYA MOHAKUD
Education	KDCN/EDN/001	PRAVASINI SENAPATI
Education	KDCN/EDN/001	PRIYANKA NAYAK
Education	KDCN/EDN/001	RAJENDRA BEHERA
Education	KDCN/EDN/001	SAKUNTALA NAIK
Education	KDCN/EDN/001	SEKHAR MIRIDIA
Education	KDCN/EDN/001	SMRUTIREKHA ROULA
Education	KDCN/EDN/001	SUJATA SAHOO
Education	KDCN/EDN/001	SUMANTA NAIK
Education	KDCN/EDN/001	SUMI PATRA
Education	KDCN/EDN/001	SUSANTA HEMBRAM
Education	KDCN/EDN/001	TAPAS KUMAR SENAPATI
Education	KDCN/EDN/001	TULASI SING SUMBURAI
History	KDCN/HIST/002	ABHISEK MALLICK
History	KDCN/HIST/002	AMIT KUMAR PARIDA
History	KDCN/HIST/002	BHABESH NAYAK
History	KDCN/HIST/002	GALU SING
History	KDCN/HIST/002	HRUSHIKESH MOHAKUD
History	KDCN/HIST/002	JAYRAM BANSING
History	KDCN/HIST/002	JAYANTA KUMAR NAYAK
History	KDCN/HIST/002	JYOTSNA RANI DEHURI
History	KDCN/HIST/002	JYOTSNA RANI ROUT
History	KDCN/HIST/002	LAXMIPRIYA SOY
History	KDCN/HIST/002	MANI SAUNYA
History	KDCN/HIST/002	MILI BANDIA
History	KDCN/HIST/002	MONALISA PATRA
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History	KDCN/HIST/002	PRASANJIT PATRA
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History	KDCN/HIST/002	SALMA MAJHI
History	KDCN/HIST/002	SHAKTI SAGAR KHATUA
History	KDCN/HIST/002	SUJATA NAIK
History	KDCN/HIST/002	TRAILAKYA BISWAL
History	KDCN/HIST/002	TULASI HEMBRAM
Odia	KDCN/ODI/003	DULARI MURMU
Odia	KDCN/ODI/003	KUILA HEMBRAM
Odia	KDCN/ODI/003	MAINO HEMBRAM
Odia	KDCN/ODI/003	MANALATA KHANDEI
Odia	KDCN/ODI/003	MANASI SAHU
Odia	KDCN/ODI/003	MANGAL BANARA
Odia	KDCN/ODI/003	MANOJ MAJHI
Odia	KDCN/ODI/003	PRAVASINI BEHERA
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Odia	KDCN/ODI/003	SATYA NARAYAN BEHERA
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Philosophy	KDCN/PHIL/004	BALARAM MOHANTY
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Philosophy	KDCN/PHIL/004	GITANJANLI BEHERA
Philosophy	KDCN/PHIL/004	GOURANGA SAMAD
Philosophy	KDCN/PHIL/004	PABITRA KUMAR SWAIN
Philosophy	KDCN/PHIL/004	PRITISNA MOHANTY
Philosophy	KDCN/PHIL/004	SABITA SING
Philosophy	KDCN/PHIL/004	SANBABULI HEMBRAM
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Political Science	KDCN/PSC/005	ANITA BEHERA
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Political Science	KDCN/PSC/005	GITIKRUSHNA SAHU
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Political Science	KDCN/PSC/005	KAJAL DAS
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Political Science	KDCN/PSC/005	MAHANTY SING SOY
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Botany	KDCN/BOT/006	SUNITA BAISAKH
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Chemistry	KDCN/CHE/007	SIBA PRASAD SAMAD
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Mathematics	KDCN/MATH/008	SARBABIJAYANEE PANDA
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Zoology	KDCN/ZOO/010	GOBINDA RANA
Zoology	KDCN/ZOO/010	JHADESWAR TUDU
Zoology	KDCN/ZOO/010	LAXMIPRIYA NAYAK
Zoology	KDCN/ZOO/010	MOUSUMI NANDA
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Zoology	KDCN/ZOO/010	PREETESH KUMAR BEHERA
Zoology	KDCN/ZOO/010	RITISNA DASH
Zoology	KDCN/ZOO/010	SANJAYA KUMAR MOHANTA
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Zoology	KDCN/ZOO/010	SOUMYARANJAN SETHI
Zoology	KDCN/ZOO/010	SWETALINA SAHU
Zoology	KDCN/ZOO/010	TAPASWINI MAJHI
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Commerce	KDCN/COM/011	ASHOK MALLICK
Commerce	KDCN/COM/011	BHAGIRATHI LOHAR
Commerce	KDCN/COM/011	BHARAT SAMAL

Behena



Commerce	KDCN/COM/011	BINAYTOSH MOHAPATRA
Commerce	KDCN/COM/011	DASA MARNDI
Commerce	KDCN/COM/011	GEETANJALI HEMBRAM
Commerce	KDCN/COM/011	KOUSHIK KUMAR SAHU
Commerce	KDCN/COM/011	KHIROD KUMAR NAYAK
Commerce	KDCN/COM/011	MAMATA NAIK
Commerce	KDCN/COM/011	MANJITA BISWAL
Commerce	KDCN/COM/011	RAJBIR SOREN
Commerce	KDCN/COM/011	RAMJA PURTY
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**A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)**

Dissertation submitted to the



**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPUR, BARIPADA**

In partial fulfillment of the requirement for the Degree of Bachelor in
Arts in Education (6th.Semester, DSE-4)-2023

Under the guidance of:

**Dr.Santa Sundar Acharya
(M.A., M.Phil. P.hd in Education)
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Place:

Date:



Signature of the Supervisor

A STUDY ON THE DECENTRALISED MANAGEMENT OF
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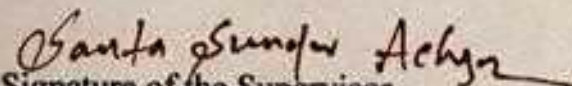
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IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023

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Place:

Date:

Santa Sundar Acharya
Signature of the Supervisor

**A STUDY OF SARVA SHIKSHA ABHIYAN PROGRAMME AT
PRIMARY LEVEL WITH SPECIAL REFERENCE TO ATTITUDE OF
STUDENTS, TEACHERS AND PARENTS**

Dissertation submitted to the



**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
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In partial fulfillment of the requirement for the Degree of Bachelor in
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A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPURA, BARIPADA

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023

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CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)" which is being submitted by in partial fulfilment of the degree of Bachelor in Arts in Education (Hons.) is a record of his/her own research work and within the area of the proposed research under my supervision. The matter embodied in the dissertation has not been submitted for the award of any other Degree/ Diploma.

Place:

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A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
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In partial fulfillment of the requirement for the Degree of Bachelor in
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CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)" which is being submitted by in partial fulfilment of the degree of Bachelor in Arts in Education (Hons.) is a record of his/her own research work and within the area of the proposed research under my supervision. The matter embodied in the dissertation has not been submitted for the award of any other Degree/ Diploma.

A. Das

A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



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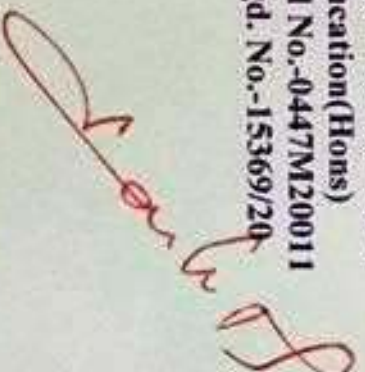
**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023**

Under the guidance of:

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CERTIFICATE

This is to certify that the dissertation entitled “**A STUDY ON THE DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)**” which is being submitted by in partial fulfilment of the degree of Bachelor in Arts in Education (Hons.) is a record of his/her own research work and within the area of the proposed research under my supervision. The matter embodied in the dissertation has not been submitted for the award of any other Degree/ Diploma.

“A STUDY OF SARVA SHIKSHA ABHIYAN PROGRAM AT PRIMARY LEVEL WITH SPECIAL REFERENCE TO ATTITUDE OF STUDENTS, TEACHERS AND PARENTS”

A Project Report Submitted in Partial Fulfillment of the
Degree of

Bachelor of Arts

6th Semester U.G Examination-2023

Maharaja Sriram Chandra Bhanjdeo University
Takatpur, Baripada

Submitted By-

JYOTIREKHA BEHERA

Roll No: - 0447M120012

Regd. No: - 15370/20

Under the Guidance of

Mr. Santa Sundar Acharya



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Mr. Santa Sundar Acharya
Dept. of Education
Kapitipada Degree College, Nuasahi
Mayurbhanj - 757040

CERTIFICATE

This is to certify that "A Study Of Sarva Shiksha Abhiyan Program At Primary Level With Special Reference To Attitude Of Students, Teachers And Parents" submitted by Jyotirekha Behera, for the award of the Degree of Bachelor of Arts from – Kapitipada Degree college, Nuasahi, Mayurbhanj, Odisha. It is bonafide record of work carried out by his under my guidance. Neither this project report nor any part of it has been submitted for any degree or academic award elsewhere.

Signature of Guide/ Supervisor.

TOTAL MARKS: 100

SL No.	Marks Division	External	Internal	Average of Marks Obtained
1	Project Preparation (Out of 60 Marks)			
2	Presentation (Out of 20 Marks)			
3	Viva Voce (Out of 20 Marks)			
4	Total			

(In Words)

Santa Sundar Acharya
Signature of External

Signature of Internal

A STUDY ON

THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPUR, BARIPADA

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023

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KAPTIPADA DEGREE COLLEGE, NUASAHAI,
MAYURBHANJ, ODISHA
APRIL-2023

A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



MAHARAJA SRI RAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPURA, BARIPADA

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH SEMESTER, DSE-4)-2023

Under the guidance of:

Dr. Santa Sundar Acharya
(M.A., M.Phil. P.hd in Education)
HOD of Education
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Mayurbhanj, Odisha

Prepared by:

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KAPTIPADA DEGREE COLLEGE, NUNSAHI,
MAYURBHANJ, ODISHA
APRIL-2023

Dr. Santa Sunder Acharya
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HOD of Education,
Kaptipada Degree College, Nusasahi,
Mayurbhanj, Odisha

CERTIFICATE

This is to certify that the dissertation entitled "A STUDY ON THE DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)" which is being submitted by in partial fulfilment of the degree of Bachelor in Arts in Education (Hons.) is a record of his/her own research work and within the area of the proposed research under my supervision. The matter embodied in the dissertation has not been submitted for the award of any other Degree/ Diploma.

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Under the guidance of:

Dr.Santa Sundar Acharya
(M.A., M.Phil. P.hd in Education)
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KAPTIPADA DEGREE COLLEGE, NUASAHU,
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APRIL-2023

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MAYURBHANJ, ODISHA
APRIL-2023

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A STUDY OF SARVA SHIKSHA ABHIYAN PROGRAMME AT
PRIMARY LEVEL WITH SPECIAL REFERENCE TO ATTITUDE OF
STUDENTS, TEACHERS AND PARENTS

Dissertation submitted to the



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
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In partial fulfillment of the requirement for the Degree of Bachelor in
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Under the guidance of:

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KAPTIPADA DEGREE COLLEGE, NUASAHU,
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APRIL-2023

Dr. Santa Sundar Acharya
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Kapitipada Degree College, Nuasahi,
Mayurbhanj, Odisha

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Under the guidance of:

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KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA
APRIL-2023

DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)" which is being submitted by in partial fulfilment of the degree of Bachelor in Arts in Education (Hons.) is a record of his/her own research work and within the area of the proposed research under my supervision. The matter embodied in the dissertation has not been submitted for the award of any other Degree/ Diploma.

Place:

Date:

Banta Banta Akh
Signature of the Supervisor

A STUDY OF SARVA SHIKSHA ABHIYAN PROGRAMME AT
PRIMARY LEVEL WITH SPECIAL REFERENCE TO ATTITUDE OF
STUDENTS, TEACHERS AND PARENTS

Dissertation submitted to the



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPUR, BARIPADA

In partial fulfillment of the requirement for the Degree of Bachelor in
Arts in Education (6th Semester, DSE-4)-2023

Under the guidance of:

Dr. Santa Sundar Acharya
(M.A., M.Phil. P.hd in Education)
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Mayurbhanj, Odisha

Prepared by:

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KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA
APRIL-2023

Dr. Santa Sundar Acharya
Lecturer in Education
HOD of Education,
Kapipada Degree College, Nusasahi,
Mayurbhanj, Odisha

CERTIFICATE

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Place:

S. S. Acharya

A STUDY ON THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
TAKHATPUR, BARIPADA

In partial fulfillment of the requirement for the Degree of Bachelor in
Arts in Education (6th.Semester, DSE-4)-2023

Under the guidance of:

Dr.Santa Sundar Acharya
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KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA
APRIL-2023

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HOD of Education,
Kapilpada Degree College,Nuasahi,
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APRIL-2023

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**KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA
APRIL-2023**

... to ...
... the ...
... A STUDY ON THE
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**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023**

Under the guidance of:

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A STUDY ON
THE DECENTRALISED MANAGEMENT OF
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KAPTIPADA DEGREE COLLEGE, NUASAHU,
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APRIL-2023

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“A STUDY OF SARVA SHIKSHA ABHIYAN PROGRAM AT PRIMARY LEVEL WITH SPECIAL REFERENCE TO ATTITUDE OF STUDENTS, TEACHERS AND PARENTS”

A Project Report Submitted in Partial Fulfillment of the
Degree of

Bachelor of Arts

6th Semester U.G Examination-2023

Maharaja Sriram Chandra Bhanjdeo University
Takatpur, Baripada

Submitted By:-

SUJATA SAHOO

Roll No: - **0447M20026**

Regd. No: - **15384/20**

Under the Guidance of

Mr. Santa Sundar Acharya



KAPTIPADA DEGREE COLLEGE, NUASAHAI
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Mr. Santa Sundar Acharya
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CERTIFICATE

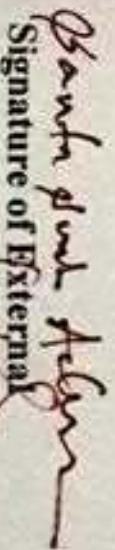
This is to certify that "A Study Of Sarva Shiksha Abhiyan Program At Primary Level With Special Reference To Attitude Of Students, Teachers And Parents" submitted by Sujata Sahoo, for the award of the Degree of Bachelor of Arts from – Kapitpada Degree college, Nuasahi, Mayurbhanj, Odisha. It is bonafide record of work carried out by his under my guidance. Neither this project report nor any part of it has been submitted for any degree or academic award elsewhere.

Signature of Guide/ Supervisor.

TOTAL MARKS: 100

Sl No.	Marks Division	External	Internal	Average of Marks Obtained
1	Project Preparation (Out of 60 Marks)			
2	Presentation (Out of 20 Marks)			
3	Viva Voce (Out of 20 Marks)			
4	Total			

(In Words)


Signature of External

Signature of Internal

A STUDY ON
THE DECENTRALISED MANAGEMENT OF
DISTRICT PRIMARY EDUCATION PROGRAMME (DPEP)

Dissertation submitted to the



**MAHARAJA SRIRAM CHANDRA BHANJA DEO UNIVERSITY,
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In partial fulfillment of the requirement for the Degree of Bachelor in
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KAPTIPADA DEGREE COLLEGE, NUASAHAI,

MAYURBHANJ, ODISHA

APRIL-2023

... and the dissertation entitled "A STUDY ON THE
**DECENTRALISED MANAGEMENT OF DISTRICT PRIMARY EDUCATION
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In partial fulfillment of the requirement for the Degree of Bachelor in
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KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA
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KAPTIPADA DEGREE COLLEGE, NUASAHU,
MAYURBHANJ, ODISHA

APRIL-2023

Dr.Santa Sundar Acharya
Lecturer in Education
HOD of Education,
Kaptipada Degree College,Nuasahi,
Mayurbhanj, Odisha

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**IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF BACHELOR IN ARTS IN EDUCATION
(6TH. SEMESTER, DSE-4)-2023**

Under the guidance of:

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KAPTIPADA DEGREE COLLEGE, NUASAHU,

MAYURBHANJ, ODISHA

APRIL-2023

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Lecturer in Education
HOD of Education,
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Place:

Date:

Santa Sundar Acharya
Signature of the Supervisor

Project Report on
**STUDY AND EVALUATION OF MAGNETIC
PROPERTIES OF SOME CERAMIC BASED
MATERIALS.**

6th Semester UG Examination-2021

Submitted To

**MAHARAJA SRIRAM
CHANDRA BHANJ
DEO UNIVERSITY
Sriram Chandra Vihar
Takatpur, Baripada**

For the partial fulfillment of degree of bachelor in science

Submitted By

**AKSHYARIKA MAHANTY
Roll No-5747M20001
Regd. No- 15483/20**

Under the guidance of

DR. GYANA RANJAN MISHRA



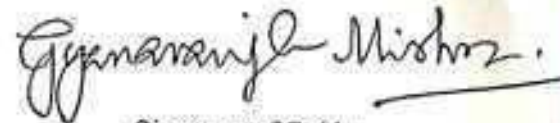
Kaptipada (Degree) College, Nuasahi

April 2023



CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "**STUDY AND EVALUATION OF MAGNETIC PROPERTIES OF SOME CERAMIC BASED MATERIALS**" submitted by Akshyarika Mahanty for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.



Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	18	18	18
3. <u>Viva-Voce:</u>	19	19	19
		Total	<u>97</u>

(In word Ninty Seven)

Sasmita Sahu
Signature of the External

Dt. 13.04.23 -


Signature of the Internal

12/04/23

Project Report on
STUDY AND DEVELOPMENT OF CARBON NANOTUBES

6th Semester UG Examination-2023

Submitted To
MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY

Sriram Chandra Vihar
Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By
Madhusudan Nayak
Roll No-5747M20006
Regd. No- 15488/20

Under the guidance of
Smitashree Singh



Kaptipada (Degree) College, Nuasahi

April 2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "STUDY AND DEVELOPMENT OF CARBON NANOTUBES" submitted by Madhusudan Nayak for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Smita Shree Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	17	17	17
3. <u>Viva. voce:</u>	18	18	18
			<div style="border-top: 1px solid black; border-bottom: 1px solid black; border-radius: 50%; width: 40px; margin: 0 auto; text-align: center;">95</div>
			Total

(In word Ninety five.....)

Sasmita Sahu (EXT)
Signature of the External

Dt. 13.04.23

Gyanaranjan Mishra
Signature of the Internal
13/04/23

Project Report on
**STUDY AND EVALUATION OF MAGNETIC
PROPERTIES OF SOME CERAMIC BASED
MATERIALS.**

6th Semester UG Examination-2021

Submitted To

MAHARAJA SRIRAM

CHANDRA BHANJ

DEO UNIVERSITY

Sriram Chandra Vihar

Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

CHINMAYA KU. MOHANTA

Roll No-5747M20004

Regd. No- 15486/20

Under the guidance of

DR.GYANA RANJAN MISHRA



Kaptipada (Degree) College, Nuasahi

APRIL 2023



CERTIFICATE

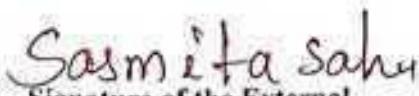
This is to certify that the thesis/project report/dissertation entitled "STUDY AND EVALUATION OF MAGNETIC PROPERTIES OF SOME CERAMIC BASED MATERIALS" submitted by Chinmaya ku. Mohanta for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nunsahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.


Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	17	17	17
3. <u>Viva-Voce:</u>	18	18	18
			<hr style="width: 100%; border: 0.5px solid black;"/> 95
		Total	

(In word.....Ninety five.....)


Signature of the External

Dt. 13.04.23


Signature of the Internal

13/04/23

Project Report on
**STUDY AND EVALUATION SOME POLYMER
BASED NANOMATERIALS**

6th Semester UG Examination-2021

Submitted To

MAHARAJA SRIRAM CHANDRA BHANJ

DEO UNIVERSITY

Sriram Chandra Vihar

Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

Ramachandra Mishra

Roll No-5747M20007

Regd. No- 15489/20

Under the guidance of

Smitashree Singh



Kaptipada (Degree) College, Nuasahi

APRIL 2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "**STUDY AND EVALUTION SOME POLYMER BASED NANOMATERIALS**" submitted by Ramachandra Mishra for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Sneha Swain Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	18	18	18
3. <u>Viva. voce:</u>	18	18	18
		Total	96

(In word Ninety Six.....)

Sasmita Sahu (EXT)
Signature of the External

Dt. 13.04.23

Ramachandra Mishra
Signature of the Internal

13/04/23

Project Report on
STUDY AND DEVELOPMENT OF GRAPHENE
BASED NANOCOMPOSITES

6th Semester UG Examination-2021

Submitted To

MAHARAJA SRIRAM
CHANDRA BHANJ
DEO UNIVERSITY
Sriram Chandra Vihar
Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

Rubina Panda

Roll No.-5747M20008

Regd. No- 15490/20

Under the guidance of

Smitashree Singh



Kaptipada (Degree) College, Nuasahi

APRIL -2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "STUDY AND DEVELOPMENT OF GRAPHENE BASED MATERIAL" submitted by Rubina Panda for the award of the degree of bachelor of Science from Kapilpada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Smita Sree Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	19	19	19
3. <u>Viva-Voce:</u>	18	18	18

Total

(97)

(In word) *Ninty Seven*

Sarmi Ja Sahu (Exl)
Signature of the External

Dt. 13-04-23

Symanshil Mishra
Signature of the Internal

12/04/23

Project Report on

STUDY AND DEVELOPMENT OF CARBON NANOTUBES

6th Semester UG Examination-2023

Submitted To

MAHARAJA SRIRAM CHANDRA BHANJ DEO

UNIVERSITY

Sriram Chandra Vihar

Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

SARAT KUMAR NAYAK

Roll No-5747M20009

Regd. No- 15491/20

Under the guidance of

Smitashree Singh



Kaptipada (Degree) College, Nuasahi

April 2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "STUDY AND DEVELOPMENT OF CARBON NANOTUBES" submitted by Sarat kumar Nayak for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Smita Sree Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	18	18	18
3. <u>Viva. voce:</u>	17	17	17
			<hr style="width: 50%; margin: 0 auto;"/> <div style="text-align: center; border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 95 </div>
		Total	
	(In word <i>Ninty five</i>)		

Sarmita Sahu (EXT)
Signature of the External

Dt. 13.04.23

Gyanaraj Mishra
Signature of the Internal

13/04/23

Project Report on

**STUDY AND EVALUATION SOME POLYMER BASED NANOMATERIALS
6th Semester UG Examination-2023**

Submitted To

MAHARAJA SRIRAM CHANDRA BHANJ DEO

UNIVERSITY

Sriram Chandra Vihar

Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

Tapan kumar Mohanta

Roll No-5747M20011

Regd. No- 15493/20

Under the guidance of

Smitashree Singh



Kaptipada (Degree) College, Nuasahi

APRIL 2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "**STUDY AND EVALUATION SOME POLYMER BASED NANOMATERIALS**" submitted by Tapan kumar Mohanta for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Smita Choudhary Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	18	18	18
3. <u>Viva. voce:</u>	18	18	18
			<hr style="width: 50%; margin: 0 auto;"/> 96
		Total	

(In word Ninety six.....)

Sasmita Sahu (EXT)
Signature of the External

Gyanaranjan Mishra
Signature of the Internal

12/04/23

“Everyday applications of Discrete
Mathematics”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- DHARMAPADA SAHANI
Roll No. -5647M20002
Regd. No.-15080/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Orisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Everyday applications of Discrete Mathematics" submitted by Dharmapada Sahani, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'


Signature of Guide/Supervisor

Total Marks :100

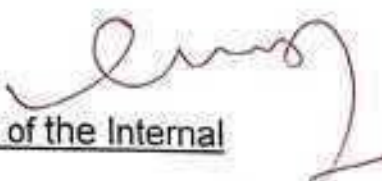
External Internal Average mark Obtained

1. Project preparation :
2. Presentation :
3. Viva-Voice :

(In words.....)

Uchirod Kumar Saha
15/04/23
Signature of the External

Total


Signature of the Internal

15/04/23

“MATHEMATICS EDUCATION”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- KALPANA HATI
Roll No. -5647M20003
Regd. No.-15081/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India



CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "MATHEMATICS EDUCATION" submitted by Kalpana Hati, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'


Signature of Guide/Supervisor

Total Marks :100


External Internal Average mark Obtained

1. Project preparation :
2. Presentation :
3. Viva-Voice :

Total

(In words.....)

Kshirod Kumar Sahu
Signature of the External 5/4/23


Signature of the Internal

15/4/23

**"Everyday applications of Discrete
Mathematics"**

**A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023**

**Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University**



By

**Name of the Student- SARBABIJAYANEE PANDA
Roll No. -5647M20004
Regd. No.-15082/20**

**Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak**



**Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India**

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Everyday applications of Discrete Mathematics" submitted by Sarbabijayance Panda, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.


Signature of Guide/Supervisor

Total Marks :100

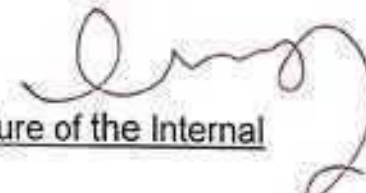
External Internal Average mark Obtained

1. Project preparation : 60
2. Presentation : 20
3. Viva-Voice : 20

(In words.....)

Kshirod Kumar Saha
Signature of the External 15/04/23

Total


Signature of the Internal

14 4 23

“MATHEMATICS EDUCATION”
A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- BISWAJIT JENA
Roll No. -5647M20001
Regd. No.-15479/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "MATHEMATICS EDUCATION" submitted by Biswajit Jena, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'


Signature of Guide/Supervisor

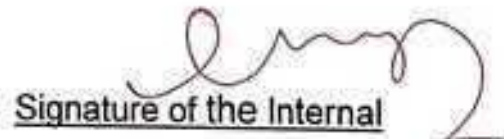
Total Marks :100

	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	60	60
2. <u>Presentation</u> :	20	17.5	18.5
3. <u>Viva-Voice</u> :	20	19	19

Total 97

(In words...Nine...seventy...)

Kshirod Kumar Sahu
15/04/23
Signature of the External


Signature of the Internal

15/4/23.

“Everyday applications of Discrete Mathematics”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- DHARMAPADA SAHANI
Roll No. -5647M20002
Regd. No.-15080/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Everyday applications of Discrete Mathematics" submitted by Dharmapada Sahani, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.




Signature of Guide/Supervisor

Total Marks :100

	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> : 60	60	60	60
2. <u>Presentation</u> : 20	19.5	19.5	19
3. <u>Viva-Voice</u> : 20	19	19	19
			<hr style="width: 20%; margin: auto;"/>
		Total	98

(In words... Nine eight...)

Kshirod Kumar Sahu
Signature of the External 15/04/23

Signature of the Internal

15/4/23

“MATHEMATICS EDUCATION”
A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- KALPANA HATI

Roll No. -5647M20003

Regd. No.-15081/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "MATHEMATICS EDUCATION" submitted by Kalpana Hati, For the award of the Degree of Bachelor of Science from Kaptipada Degree College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'


Signature of Guide/Supervisor

Total Marks :100


	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	60	60
2. <u>Presentation</u> :	20	17.5	18.5
3. <u>Viva-Voice</u> :	20	19	19

Total

97

(In words... Nine seven...)

Kalpana Hati, 5/04/23
Signature of the External


Signature of the Internal

15/4/23

“Everyday applications of Discrete Mathematics”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Science
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanja Deo University,
formerly North Orissa University



By

Name of the Student- SARBABIJAYANEE PANDA
Roll No. -5647M20004
Regd. No.-15082/20

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Amarendra Ku Pattanayak



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Everyday applications of Discrete Mathematics" submitted by Sarbabjayance Panda, For the award of the Degree of Bachelor of Science from Kapthada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.


Signature of Guide/Supervisor

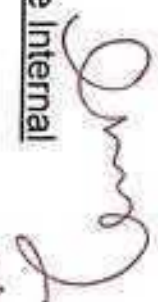
Total Marks : 100

	<u>External</u>	<u>Internal</u>	<u>Average mark</u>	<u>Obtained</u>
1. <u>Project preparation</u> :	60	60		60
2. <u>Presentation</u> :	20	19.5	19.5	19
3. <u>Viva-Voice</u> :	20	19	19	19
			Total	98

(In words: Nine eight)

Keshor and Kumar Saha
Signature of the External ^{15/04/23}

Signature of the Internal


^{15/04/23}

“Role of Political Parties in Indian Democracy”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Adarsa Kumar Nayak**
Roll No. -**1447M20001**
Regd. No.- **15443/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Adarsa Kumar Nayak , For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Barik.
Signature of Guide/Supervisor

Total Marks :100

	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	55	54
2. <u>Presentation</u> :	25	18	19
3. <u>Viva-Voice</u> :	15	20	10
	<u>100</u>		<u>100</u>
		Total	<u>83.00</u>

(In words... *Eighty Three*.....)

Vivekananda Dasgupta
Signature of the External 15.4.23

Lambodar Barik
Signature of the Internal 15.4.23

“Role of Political Parties in Indian Democracy ”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Bikash Priyaranjan Behera**

Roll No. -**1447M20004**

Regd. No.- **15446/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -

Mr. Lambodar Barik

HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Bikash Priyaranjan Behera, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Behera
Signature of Guide/Supervisor

Total Marks :100

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	55	55	55
2. <u>Presentation</u> :	25	17	17	17
3. <u>Viva-Voice</u> :	15	11	11	11
	<u>100</u>			
				<u>83</u>
			Total	

(In words... *Eighty three*)

Vivekananda Behera 15.4.23
Signature of the External

Lambodar Behera
Signature of the Internal

15.4.23

Role of Political Parties in Indian Democracy ”

Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Binabati Naik**
Roll No. -**1447M20005**
Regd. No.- **15447/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -

Mr. Lambodar Barik

HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Binabati Naik, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lamboden Barick,
Signature of Guide/Supervisor

Total Marks :100

	<u>EM</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	55	55	55
2. <u>Presentation</u> :	25	20	19	19.5
3. <u>Viva-Voice</u> :	15	10	11	10.5
	<u>100</u>			

Total

85

(In words... *Eight FIVE*)

Fivekajanda Dasbabu
Signature of the External 15.4.23

Lamboden Barick.
Signature of the Internal
15.4.23

"Role of Political Parties in Indian Democracy"

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Chandan Kumar Behera**
Roll No. -**1447M20006**
Regd. No.- **15448/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Chandan Kumar Behera, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Banerjee
Signature of Guide/Supervisor

Total Marks :100

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation :</u>	60	56	56	56
2. <u>Presentation :</u>	25	23	22	22.5
3. <u>Viva-Voice :</u>	15	14	15	14.5
	<u>100</u>			

Total

(93)

(In words...*Nine three*.....)

Vivek Das Dasgupta
Signature of the External

Lambodar Banerjee
Signature of the Internal

“Role of Political Parties in Indian Democracy”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Chinmay Kumar Sahoo**
Roll No. -**1447M20007**
Regd. No.- **15449/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Chinmay Kumar Sahoo, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Barik.
Signature of Guide/Supervisor

Total Marks :100

	<u>F.W</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	55	55	55
2. <u>Presentation</u> :	25	20	19	19.5
3. <u>Viva-Voice</u> :	15	11	12	11.5
	<u>100</u>			<u>86</u>
		Total		

(In words... Eighty Six)

Vivekananda Deshabo
Signature of the External 15.7.23

Lambodar Barik.
Signature of the Internal

“Role of Political Parties in Indian Democracy”

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Dibyakanti Manika**

Roll No. -**1447M20008**

Regd. No.- **15450/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -

Mr. Lambodar Barik

HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Role of Political parties in Indian Democracy" submitted by Dibyakanti Manika, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodare Barik
Signature of Guide/Supervisor

Total Marks :100

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	55	55	55
2. <u>Presentation</u> :	25	22	21	21.5
3. <u>Viva-Voice</u> :	<u>15</u>	12	13	12.5
	100			
				<u>89</u>
			Total	

(In words... *Eight Nine*)

Virender Deshpande
Signature of the External 15.4.23

Lambodare Barik
Signature of the Internal
15.4.23

*“Political Participation Through Women
Empowerment in India ”*

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Dukhia Murmu**
Roll No. -**1447M20009**
Regd. No.- **15451/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide –
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Political Participation Through Women Empowerment in India" submitted by Dukhia Murmu, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Lambodar Borek
Signature of Guide/Supervisor

Total Marks :100

	<u>R.M</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation :</u>	60	55	55	55
2. <u>Presentation :</u>	25	20	18	19
3. <u>Viva-Voice :</u>	15	9	11	10
	<u>100</u>			
				<u>84</u>
			Total	

(In words... *Eight four*)

Virendra Dubey
Signature of the External

Lambodar Borek
Signature of the Internal

*“Political Participation Through Women
Empowerment in India ”*

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Galusing Sundi**
Roll No. -**1447M20010**
Regd. No.- **15452/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Political Participation Through Women Empowerment in India" submitted by Galusing Sundi, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Lambodar Barik.
Signature of Guide/Supervisor

Total Marks :100

	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> : <u>60</u>	55	55	55
2. <u>Presentation</u> : <u>25</u>	20	18	19
3. <u>Viva-Voice</u> : <u>15</u>	10	12	11
<u>100</u>			
	Total		85

(In words... Eight Five)

Vivekanand Dasbabu
Signature of the External 15.11.23

Lambodar Barik.
Signature of the Internal

*“Political Participation Through Women
Empowerment in India ”*

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Gitikrushna Sahu**

Roll No. -**1447M20011**

Regd. No.- **15453/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -

Mr. Lambodar Barik

HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Political Participation Through Women Empowerment in India" submitted by Gitikrushna Sahu, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Lambodar Barik
Signature of Guide/Supervisor

Total Marks : 100

	<u>RM</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	56	56	56
2. <u>Presentation</u> :	25	23	23	23
3. <u>Viva-Voice</u> :	15	14	14	14
	<u>100</u>			
				(93)

Total

(In words... *Nine Three*)

Vivekananda Dasbabe 15.4.23
Signature of the External

Lambodar Barik
Signature of the Internal
15.4.23

*“Political Participation Through Women
Empowerment in India ”*

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Jiban Dalei**
Roll No. -**1447M20012**
Regd. No.- **15454/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Political Participation Through Women Empowerment in India" submitted by Jiban Dalei, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision. Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Barik.
Signature of Guide/Supervisor

Total Marks :100

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation :</u>	60	56	56	56
2. <u>Presentation :</u>	25	24	24	24
3. <u>Viva-Voice :</u>	15	14	14	14
	<u>100</u>			

Total

94

(In words.....*Nine*.....*four*.....)

Vivekananda Das 15.4.23
Signature of the External

Lambodar Barik.
Signature of the Internal

*“Political Participation Through Women
Empowerment in India ”*

A Project Report/Dissertation Submitted in Partial
fulfillment of Degree of
Bachelor of Arts
6th Semester UG Examination-2023

Maharaja Sriram Chandra Bhanjadeo University
Sriram Chandra Vihar
Takatpur, Baripada, Mayurbhanj, Odisha



By

Name of the Student-**Kajal Das**
Roll No. -**1447M20013**
Regd. No.- **15455/20**

Under the Supervision/Guidance of
Name of the Supervisor/Guide -
Mr. Lambodar Barik
HOD. of Pol.Sc.



Kaptipada Degree College, Nuasahi,
Mayurbhanj, Odisha, India

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Political Participation Through Women Empowerment in India" submitted by Kajal Das, For the award of the Degree of Bachelor of Arts from Kaptipada Degree College, Nusahi, Mayurbhanj, Odisha, India, is a bonafide record of work carried out by him under my guidance/ supervision' Neither this thesis/project report/ dissertation nor any part of it has been submitted for any degree or academic award elsewhere'

Lambodar Barik.
Signature of Guide/Supervisor

Total Marks :100

	<u>F.W</u>	<u>External</u>	<u>Internal</u>	<u>Average mark Obtained</u>
1. <u>Project preparation</u> :	60	56	56	56
2. <u>Presentation</u> :	25	23	22	22.5
3. <u>Viva-Voice</u> :	15	11	12	11.5
	<hr style="width: 50%; margin: 0 auto;"/> 100			

Total

(90)

(In words.....*Nine zero*.....)

Virekanda Dasbabu 15.7.23
Signature of the External

Lambodar Barik.
Signature of the Internal

Project Report on
**Democracy in India: Problems and
Challenges**

For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

KANHU CHARAN KHANDEI

Roll No-1447M20014

Regd. No- 15456/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Kanhu Charan Khandei for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjita Prasad
Signature of Guide

Total Mark: 100

	<u>EW</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	22	21	21.5
3. <u>Viva-Voce:</u>	15	12	13	12.5
	<u>100</u>			
			Total	<u>90</u>

(In word.....*Nine zero*.....)

Vivekananda Das
Signature of the External
15.4.23

Lambodar Barick
Signature of the Internal
15.4.23

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

MAHANTY SING SOY

Roll No-1447M20015

Regd. No- 15457/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled “Democracy in India: Problems and Challenges” submitted by Mahanty Sing Soy for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjita Prasad
Signature of Guide

Total Mark: 100

	<u>EM</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	20	18	19
3. <u>Viva-Voce:</u>	15	12	14	13
	<hr style="width: 50%; margin: 0 auto;"/> 100			<hr style="width: 50%; margin: 0 auto;"/> 88
			Total	

(In word..... *Eight Eight*)

Nirekha Das
Signature of the External 15.4.23

Lambodar Behera
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

MAMATA MURMU

Roll No-1447M20016

Regd. No- 15458/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Mamata Murmu for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjita Das
Signature of Guide

Total Mark: 100

	<u>RM</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	55	55	55
2. <u>Presentation:</u>	25	20	18	19
3. <u>Viva-Voce:</u>	15	10	12	11
	<u>100</u>			<u>85</u>
			Total	

(In word Eighty five)

Vivekananda Das
Signature of the External 15.4.23

Lambodar Boudic
Signature of the Internal
15.4.23

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

MECHA SINGH

Roll No-1447M20017

Regd. No- 15459/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Mecha Singh for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjita Mishra
Signature of Guide

Total Mark: 100

	<u>AW</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	20	18	19
3. <u>Viva-Voce:</u>	15	12	14	13
	<u>100</u>			<u>98</u>
			Total	

(In word..... *Eight Eight*)

Vivek Nanda Dasgupta
Signature of the External 15.4.23

Lambodar Barate
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

RAMA CHANDRA NAIK

Roll No-1447M20018

Regd. No- 15460/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Rama Chandra Naik for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranbir Prasad
Signature of Guide

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	55	55	55
2. <u>Presentation:</u>	25	19	17	17.5
3. <u>Viva-Voce:</u>	15	9	10	9.5
	<u>100</u>			<u>82</u>
			Total	

(In word Eight Two)

Vivekananda D. Babu
Signature of the External / 5.4.23

Lambodar Bauri
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**

Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

RASABATI KHALPALIA

Roll No-1447M20019

Regd. No- 15461/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Rasabati Khalpalia for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ramita Prasad
Signature of Guide

Total Mark: 100

	<u>F.Y</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	20	19	19.5
3. <u>Viva-Voce:</u>	15	11	12	11.5
	<u>100</u>			
			Total	<u>87</u>

(In word Eight seven.....)

Vivekananda Dasbaba
Signature of the External 15-4-22

Lambodar Das
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

RUPAM KUMAR ARUKHA

Roll No-1447M20020

Regd. No- 15462/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Rupam Kumar Arukha for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjit Prasad
Signature of Guide

Total Mark: 100

	<u>FM</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	23	23	23
3. <u>Viva-Voce:</u>	15	14	14	14
	<u>100</u>			<u>93</u>
			Total	

(In word..... *Nine three*)

Virekancha Das
Signature of the External 15.4.23

Lambodar Boudik
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

SARASWATI SING

Roll No-1447M20022

Regd. No- 15464/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Saraswati Sing for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Ranjana Prasad
Signature of Guide

Total Mark: 100

	<u>FM</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	- 55	55	55
2. <u>Presentation:</u>	25	- 20	21	20.5
3. <u>Viva-Voce:</u>	15	13	12	12.5
	<u>100</u>			<u>88</u>
			Total	

(In word..... Eighty Eight)

Vivekananda Dasgupta
Signature of the External 15.4.23

Lambodar Barik
Signature of the Internal

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

SIPI SAHOO

Roll No-1447M20023

Regd. No- 15465/20

Under the guidance of

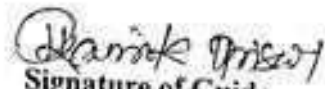
Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "**Democracy in India: Problems and Challenges**" submitted by Sipi Sahoo for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.


Signature of Guide

	<u>FN</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	56	56	56
2. <u>Presentation:</u>	25	20	20	20
3. <u>Viva-Voce:</u>	15	14	14	14
	<u>100</u>			<u>90</u>
			Total	

(In word..... Nine zero)

Viveko Jagdish Dasgupta
Signature of the External 15-4-23

Lambodare Boroile
Signature of the Internal
15-4-23

Project Report on
Democracy in India: Problems and Challenges
For the partial fulfillment of degree of
Bachelor in Arts

6th Semester UG Examination-2023

Submitted To

**MAHARAJA SRIRAM CHANDRA BHANJ DEO
UNIVERSITY**
Sriram Chandra Vihar Takatpur, Baripada, Mayurbhanj.

Submitted By

SUKANTI ARUKHA

Roll No-1447M20024

Regd. No- 15466/20

Under the guidance of

Mrs. Ranjita Biswal



Kaptipada (Degree) College, Nuasahi

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "Democracy in India: Problems and Challenges" submitted by Sukanti Arukha for the award of the degree of bachelor of Arts from Kaptipada (Degree) College, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

[Signature]
Signature of Guide

Total Mark: 100

	<u>F.M</u>	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	55	55	55
2. <u>Presentation:</u>	25	19	20	19.5
3. <u>Viva-Voce:</u>	15	14	13	13.5
	<u>100</u>			<u>88</u>
			Total	

(In word..... *Eight Eight*)

Vivekananda Debebo
Signature of the External 15.4.23

Lambodar Banerjee
Signature of the Internal 15.4.23

Project Report on
**STUDY AND DEVELOPMENT OF GRAPHENE
BASED NANOCOMPOSITES**

6th Semester UG Examination-2020-2023

Submitted To

MAHARAJA SRIRAM

CHANDRA BHANJ

DEO UNIVERSITY

Sriram Chandra Vihar

Takatpur, Baripada

For the partial fulfillment of degree of bachelor in science

Submitted By

CHANDAN KU. NATH

Roll No-5747M20003

Regd. No- 15485/20

Under the guidance of

Smitashree Singh



Kaptipada (Degree) College, Nuasahi

APRIL 2023

CERTIFICATE

This is to certify that the thesis/project report/dissertation entitled "STUDY AND DEVELOPMENT OF GRAPHENE BASED MATERIAL" submitted by Chandan ku. Nath for the award of the degree of bachelor of Science from Kaptipada (Degree) college, Nuasahi, Mayurbhanj, Odisha, India, is a bonafied project report/dissertation nor any part of it has been submitted for any degree or academic award elsewhere.

Smita Shree Singh
Signature of Guide

Total Mark: 100

	<u>External</u>	<u>Internal</u>	<u>Average Mark Obtained</u>
1. <u>Project Preparation:</u>	60	60	60
2. <u>Presentation:</u>	18	18	18
3. <u>Viva-Voce:</u>	19	19	19
		Total	<hr style="width: 50%; margin: 0 auto;"/> 97

(In word Ninty Seven)

Sasmitasahu (EXT)
Signature of the External

11.13.04.23

Gyanaraj Mishra
Signature of the Internal

13/04/23

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR ,TAKHATPUR, BARIPADA,MAYURBHANJ

Submitted By:-

Balaram Mahanty

Roll No:-1347M20001

Regd. No:-15431/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled 'EUTHANASIA' submitted by Balaram Mohanty for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor any part of it has been submitted for any degree or academic.

Manchana Mahapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

4. Project Preparation :
5. Presentation :
6. Viva-Voice :

Total: 87

Brundaban Mohanty
Signature of the External

Manchana Mahapatra
Signature of the Internal

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR ,TAKHATPUR, BARIPADA,MAYURBHANJ

Submitted By:-

Gitanjali Behera

Roll No:-1347M20003

Regd. No:-15433/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAHI

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Gitanjali Behera for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

External	Internal	Average
----------	----------	---------

Mark Obtained:-

- 4. Project Preparation :
- 5. Presentation :
- 6. Viva-Voice :

Total: 88

Brunabau Meshy
Signature of the External

Manchana Mohapatra
Signature of the Internal

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR, TAKHATPUR, BARIPADA, MAYURBHANJ

Submitted By:-

Gouranga Samad

Roll No:-1347M20004

Regd. No:-15434/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAHI

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Gouranga Samad for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

- 4. Project Preparation :
- 5. Presentation :
- 6. Viva-Voice :

Total: 89

Braundabun Moh
Signature of the External

Manchana Mohapatra
Signature of the Internal

**A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts**

6th semester UG Examination -2023



**Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR ,TAKHATPUR, BARIPADA,MAYURBHANJ**

Submitted By:-

abitra Kumar Swain

Roll No:-1347M20006

Regd. No:-15436/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Pabitra Kumar Swain for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

- 4. Project Preparation :
- 5. Presentation :
- 6. Viva-Voice :

Total: 88

Brundaban Mohapatra
Signature of the External

Manchana Mohapatra
Signature of the Internal

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Bachelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR, TAKHATPUR, BARIPADA, MAYURBHANJ

Submitted By:-

Pratishma Mahanty

Roll No:-1347M20007

Regd. No:-15437/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Pritisma Mahanty for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

4. Project Preparation :

5. Presentation :

6. Viva-Voice :

Total: 87

Brendaban Mohapatra
Signature of the External

Manchana Mohapatra
Signature of the Internal

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR , TAKHATPUR, BARIPADA, MAYURBHANJ

Submitted By:-

Sabita Sing

Roll No:-1347M20008

Regd. No:-15438/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Sabita Sing for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchama Mahapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

4. Project Preparation :
5. Presentation :
6. Viva-Voice :

Total: 89

Brunabhai Mahapatra
Signature of the External

Manchama Mahapatra
Signature of the Internal

EUTHANASIA

A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts

6th semester UG Examination -2023



Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR, TAKHATPUR, BARIPADA, MAYURBHANJ

Submitted By:-

Sanbabuli Hembram

Roll No:-1347M20009

Regd. No:-15439/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "EUTHANASIA" submitted by Sanbabuli Hembram for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchawa Mohapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

4. Project Preparation :

5. Presentation :

6. Viva-Voice :

Total: 89

Rameshwar Meher
Signature of the External

Manchawa Mohapatra
Signature of the Internal

PHILOSOPHY OF SRI AUROBINDO - IN A NUTSHELL

**A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts**

6th semester UG Examination -2023



**Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR, TAKHATPUR, BARIPADA, MAYURBHANJ**

Submitted By:-

Sarada Murmu

Roll No:-1347M20010

Regd. No:-15440/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



**DEPARTMENT OF PHILOSOPHY
KAPTIPADA DEGREE COLLEGE NUASAHI
MAYURBHANJ, ODISHA -757040**

CERTIFICATE

This is to certified that the project report entitled **"PHILOSOPHY OF SRI AUROBINDA- IN A NUTSHELL"** submitted by Sarada Murmu for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Malapan
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

4. Project Preparation :
5. Presentation :
6. Viva-Voice :

Total: 90

Bruno Malapan
Signature of the External

Manchana Malapan
Signature of the Internal

PHILOSOPHY OF SRI AUROBINDO - IN A NUTSHELL

**A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts**

6th semester UG Examination -2023



**Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR, TAKHATPUR, BARIPADA, MAYURBHANJ**

Submitted By:-

Shreetam Sarkar

Roll No:-1347M20011

Regd. No:-15441/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAH

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled **-PHILOSOPHY OF SRI AUROBINDA- IN A NUTSHELL**" submitted by **Sreetam Sarkar** for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

	External	Internal	Average
--	----------	----------	---------

Mark Obtained:-

- 4. Project Preparation :
- 5. Presentation :
- 6. Viva-Voice :

Total: 87

Brunelina Mohapatra
Signature of the External

Manchana Mohapatra
Signature of the Internal

PHILOSOPHY OF SRI AUROBINDO - IN A NUTSHELL

**A Project Report submitted in Partial fulfillment of
The Degree of Batchelor of Arts**

6th semester UG Examination -2023



**Maharaja Sriram Chandra Bhanja Deo University,
SRIRAM CHANDRA VIHAR ,TAKHATPUR, BARIPADA, MAYURBHANJ**

Submitted By:-

Suranjan Rout

Roll No:-1347M20012

Regd. No:-15442/20

Guided By:-

Smt. Manchana Mohapatra

H.O.D In Philosophy



DEPARTMENT OF PHILOSOPHY

KAPTIPADA DEGREE COLLEGE NUASAHI

MAYURBHANJ, ODISHA -757040

CERTIFICATE

This is to certified that the project report entitled "**PHILOSOPHY OF SRI AUROBINDA- IN A NUTSHELL**" submitted by **Suranjan Rout** for the award of Bachelor of Arts from Kaptipada Degree College, Nuasahi, Mayurbhanj, odisha is a bonafied record of work carried out by her under my guidance. Neither this project report nor nor any part of it has been submitted for any degree or academic.

Manchana Mohapatra
Signature of the Supervisor

Total Marks: 100

External	Internal	Average
----------	----------	---------

Mark Obtained:-

4. Project Preparation :
5. Presentation :
6. Viva-Voice :

Total: 87

Bhramdas Mohan
Signature of the External

Manchana Mohapatra
Signature of the Internal

primitive roots, Euler's criterion, the Legendre symbol, Jacobi symbol and their properties, quadratic reciprocity, quadratic congruences with composite moduli.

UNIT-IV

Affine ciphers, Hill ciphers, p vgh v g gv ublic key cryptography, RSA encryption and decryption, the equation $x^2 + y^2 = z^2$, Fermat's Last Theorem.

BOOKS RECOMMENDED:

1. David M.Burton, *Elementary Number Theory* (6th Edition), TataMcGraw-Hill Edition, Indian reprint, 2007.

BOOK FOR REFERENCES:

1. Thomas Koshy, *Elementary Number Theory with Applications* (2nd Edition), Academic Press, 2007.

2. Neville Robinns, *Beginning Number Theory* (2nd Edition), Narosa Publishing House Pvt. Limited, Delhi, 2007.

OR

Discipline Specific Elective Paper-IV

PROJECT

Guidelines for +3 (CBCS) Under Graduate(B.A./B.Sc.) Mathematics (Honours) Project

1. Any student registering for doing project is required to inform the HOD, Mathematics the name of his/her project supervisor(s) at the time of pre-registration.
2. By the last date of add and drop, the student must submit the "Project Registration Form", appended as Annexure-I to this document, to the HOD, Mathematics. This form requires a project title, the signature of the student, signature(s) of the supervisor(s) and the signature of the HOD, Mathematics of the college/university.
3. The project supervisor(s) should normally be a faculty member(s) of the Department of Mathematics and the topic of the project should be relevant to Mathematical Sciences. If a student desires to have a Project Supervisor from another department of the institute, the prior approval for the same should be sought from the HOD, Mathematics.
4. A student may have at the most two Project Supervisors. If a student desires to have two supervisors, at least one of these should be from the Department of Mathematics.
5. The student(s) will be required to submit one progress report and a final report of the Project to the HOD, Mathematics. The progress report is to be submitted in the sixth

week of the semester in which the project is undertaken. The hard copy and an electronic version of the final report of the project should be submitted two weeks before the end semester examination of the sixth semester. In addition the student will be required to make an oral presentation in front of a committee (Under Graduate (B.A./ B.Sc.) Mathematics (Honours) Project committee of the college in which supervisor is one of the members) constituted for this purpose by the Department of Mathematics of the college.

6. The student is expected to devote about 100 hours. The project will be evaluated by a committee of faculty members at the end of the sixth semester. The committee will be constituted by the Under Graduate (B.A./B.Sc.) Mathematics (Honours) Project committee of the college keeping in mind the areas of project they will cover.
7. In each semester the grade of a student will be awarded by the committee in consultation with his/her project supervisor(s). The project is evaluated on the basis of the following components: First Progress Reports: 20%; second/Final Report: 30%; Presentation: 30%; Viva: 20%.
8. Project progress reports should normally be no longer than 250 words and final report should not be longer than 40 A4 size pages in double spacing. Each final project report need to contain the following: (i) Abstract (ii) Table of contents (iii) Review of literature (iv) Main text(v) List of references. It may be desirable to arrange the main text as an introduction, the main body and conclusions.

GUIDELINES FOR STRUCTURING CONTENTS

The following sequence for the thesis organization should be followed:

- | | |
|-------------------|------------------------------------|
| (i) Preliminaries | Title Page |
| | Certificate |
| | Abstract/Synopsis |
| | Acknowledgement and/ or Dedication |
| | Table of Contents |

List of Figures, Tables, Illustrations,
Symbols, etc (wherever applicable)

(ii) Text of Thesis Introduction
The body of the thesis, summary and conclusions

(iii) Reference Material List of References, Bibliography

(iv) Appendices

NOTE:

1. *Synopsis/Abstract* should be self-complete and contain no citations for which the thesis has to be referred.

2. The Text of the Thesis

(a) *Introduction:*

Introduction may be the first chapter or its first major division. In either case, it should contain a brief statement of the problem investigated. It should outline the scope, aim, general character of the research and the reasons for the student's interest in the problem.

(b) *The body of Thesis*

This is the substance of the dissertation inclusive of all divisions, subdivisions, tables, figures, etc.

(c) *Summary and conclusions*

If required, these are given as the last major division (chapter) of the text. A further and final subdivision titled "*Scope for Further Work*" may follow.

(d) *Reference material*

The list of references should appear as a consolidated list with references listed either alphabetically or sequentially as they appear in the text of the thesis.

For referencing an article in a scientific journal the suggested format should contain the following information: authors, title, name of journal, volume number, page numbers and year. For referencing an article published in a book, the suggested format should contain, authors, the title of the book, editors, publisher, year, page number of the article in the book being referred to. For referencing a thesis the suggested format should contain, author, the title of thesis, where thesis was submitted or awarded, year.

ANNEXURE-I
Department of Mathematics
Project Registration Form

Name of the college/university:

Name of the student:

Roll No. :

e-mail :

Name of the supervisor(s):

Department(s):

e-mail(s):

Title of the Project:

Signature of the Student:

Signature of supervisor(s): (i)

(ii)

Signature of HOD, Mathematics:

ଶୃଙ୍ଖଳାକେନ୍ଦ୍ରିକ ଇଚ୍ଛାଧୀନ ପାଠ – ଓଡ଼ିଆ

Discipline Specific Elective – Odia DSE

ସାଧାରଣ (Pass) ଶ୍ରେଣୀ ପାଇଁ ଉଦ୍ଦିଷ୍ଟ

୫ମ ଓ ୬ଷ୍ଠ ପର୍ଯ୍ୟାୟ (Semester – V, VI)

୫ମ ପର୍ଯ୍ୟାୟ (Semester – V): ପ୍ରଥମ ଓ ଦ୍ୱିତୀୟ ପତ୍ର

୧୦୦ + ୧୦୦ = ୨୦୦ ନମ୍ବର

୬ଷ୍ଠ ପର୍ଯ୍ୟାୟ (Semester – VI) : ତୃତୀୟ ପତ୍ର ଓ ଚତୁର୍ଥ ପତ୍ର

୧୦୦ + ୧୦୦ = ୨୦୦ ନମ୍ବର

(୨୦ ନମ୍ବର ଅଳ୍ପତମ ପରୀକ୍ଷା ଓ ୮୦ ନମ୍ବର ମୁଖ୍ୟ ପରୀକ୍ଷା = ୧୦୦ ନମ୍ବର)

ଚତୁର୍ଥ ପତ୍ର - ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି ୧୦୦ ନମ୍ବର

(ଅନୁବାଦ ବା ସଂପାଦନା ବା ଓଡ଼ିଆ ସଂସ୍କୃତି ଉପରେ ଅନୁଧ୍ୟାନ ୫୦ ପୃଷ୍ଠା ମଧ୍ୟରେ ନିବନ୍ଧଟି ଲେଖିବାକୁ ହେବ ।)

(୮୦ ନମ୍ବର ପ୍ରକଳ୍ପ ଲେଖା + ୨୦ ନମ୍ବର ସାକ୍ଷାତକାର ପରୀକ୍ଷା = ୧୦୦ ନମ୍ବର)

ମୋଟ - ୪୦୦ ନମ୍ବର

ମୂଲ୍ୟାଙ୍କନ ବିଭାଜନ ପଦ୍ଧତି

(କ) ପ୍ରତ୍ୟେକ ପାଠ୍ୟର ସବୁ ଏକକ (ୟୁନିଟ୍) ରୁ ୧୫ଟି ୨ ନମ୍ବର ବିଶିଷ୍ଟ ଅତି ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ ପଡ଼ିବ । ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ସେଥିରୁ ଯେକୌଣସି ୧୦ ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ହେବ । (୨x୧୦=୨୦)

(ଖ) ପ୍ରତ୍ୟେକ ପାଠ୍ୟର ସବୁ ଏକକ (ୟୁନିଟ୍)ରୁ ଅଳ୍ପତମ ୨ଟି ଲେଖାଏଁ ମୋଟ ୮ଟି ୧୫ ନମ୍ବର ବିଶିଷ୍ଟ ଦୀର୍ଘ ପ୍ରଶ୍ନ ପଡ଼ିବ । ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ସେଥିରୁ ଯେକୌଣସି ୪ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ପଡ଼ିବ । (୧୫ x ୪=୬୦)

(ଗ) ମହାବିଦ୍ୟାଳୟ ସ୍ତରୀୟ ଅଳ୍ପତମ ପର୍ଯ୍ୟାୟ ପରୀକ୍ଷା - (୨୦ ନମ୍ବର)

ମୋଟ ମୂଲ୍ୟାଙ୍କନ - ୧୦୦ ନମ୍ବର

ଭୂମିକା:

ଏହି ପାଠ୍ୟକ୍ରମଟି ବିଦ୍ୟାର୍ଥୀମାନଙ୍କୁ ଓଡ଼ିଶାର ସାମାଜିକ, ସାଂସ୍କୃତିକ ଓ ଐତିହାସିକ ବିବର୍ତ୍ତନ ବିଷୟରେ ଜ୍ଞାନ ଆହରଣ ପାଇଁ ସୁଯୋଗ ସୃଷ୍ଟିକରିବ । ଓଡ଼ିଆ ସାହିତ୍ୟରେ ସମାଜ ଓ ସାଂସ୍କୃତିକ ପ୍ରତିଫଳନ, ସାହିତ୍ୟର ବିବିଧତା ଏବଂ କମ୍ପ୍ୟୁଟରଭିତ୍ତିକ ବିଦ୍ୟା ଶିକ୍ଷଣ ଦିଗକୁ ଧ୍ୟାନ ଦିଆଯାଇ ଏହା ପ୍ରସ୍ତୁତ ହୋଇଛି ।

ଏହି ପାଠ୍ୟକ୍ରମରେ ମୋଟ ୪ ଗୋଟି ପାଠ୍ୟ ବାଧ୍ୟତାମୂଳକ । ସମ୍ମାନ (Hons) ଶ୍ରେଣୀର ଛାତ୍ରଛାତ୍ରୀମାନେ ଏହି ଚାରେଟିଯାକ ପାଠ୍ୟ ପଢ଼ିବେ । ଏଥିମଧ୍ୟରୁ ଗୋଟିଏ ପାଠ୍ୟକୁ ଆଧାର କରି ତା' ସହିତ ଅନ୍ୟ ବିଦ୍ୟାକୁ ସଂଯୋଗ କରି ଷଷ୍ଠ ପର୍ଯ୍ୟାୟ (ସେମିଷ୍ଟର-୨) ପରୀକ୍ଷା ବେଳକୁ ପ୍ରକଳ୍ପ (୫୦ ପୃଷ୍ଠା ମଧ୍ୟରେ) ପ୍ରସ୍ତୁତ କରିବେ । ପ୍ରକଳ୍ପଟି ଷଷ୍ଠ ପତ୍ର ଭାବରେ ବିବେଚିତ ହେବ ।

ଲିଶେଷ୍ୟ ଦୁଷ୍ଟବ୍ୟ: ସାଧାରଣ (Pass) ଶ୍ରେଣୀର ଛାତ୍ରଛାତ୍ରୀମାନେ ପାଠ୍ୟ-୧ କୁ ୫ ପର୍ଯ୍ୟାୟରେ DSE-IA କିମ୍ବା DSE-IIA ଭାବେ ଏବଂ ପାଠ୍ୟ-୨କୁ ଷଷ୍ଠ ପର୍ଯ୍ୟାୟରେ DSE-IB କିମ୍ବା DSE-IIB ଭାବେ ପଢ଼ିବେ ।

ସବିଶେଷ ପାଠ୍ୟକ୍ରମ

ମୋଟ ୪ ଗୋଟି ପାଠ୍ୟ

ପତ୍ର ସଂଖ୍ୟା - ୪

ପ୍ରତ୍ୟେକ ପତ୍ର - ୧୦୦ ନମ୍ବର (୨୦ ନମ୍ବର ଅନ୍ତଃପରୀକ୍ଷା + ୮୦ ନମ୍ବର ମୁଖ୍ୟ ପରୀକ୍ଷା)

ସମୟ ନିର୍ଦ୍ଦିଷ୍ଟ = ୬ x ୪ = ୨୪

ପ୍ରତ୍ୟେକ ପତ୍ର ପାଇଁ ୪୦ଟି ପିରିୟଡ୍, ପ୍ରତି ପିରିୟଡ୍ - ୪୫ ମିନିଟ୍

୫ମ ଓ ୬ଷ୍ଠ ପର୍ଯ୍ୟାୟ (ସେମିଷ୍ଟର - ୦୫ ଓ ୦୬)

ପାଠ୍ୟ-୧ / Course-1 : ଓଡ଼ିଶାର ସାଂସ୍କୃତିକ ଇତିହାସ ଓ ଓଡ଼ିଆ ସାହିତ୍ୟ (Pass)

(ସମୟ ନିର୍ଦ୍ଦିଷ୍ଟ ୪+୨=୬)

୧ମ ଏକକ : ଓଡ଼ିଶାର ସଂକ୍ଷିପ୍ତ ଇତିହାସ ।

୨ୟ ଏକକ : ଓଡ଼ିଶାରେ ବୌଦ୍ଧ ସଂସ୍କୃତି, ଶୈବ ସଂସ୍କୃତି ଓ ବୈଷ୍ଣବ ସଂସ୍କୃତି ।

୩ୟ ଏକକ : ଶ୍ରୀଜଗନ୍ନାଥ ସଂସ୍କୃତି ଓ ଆଦିବାସୀ ସଂସ୍କୃତି ।

୪ର୍ଥ ଏକକ : ଓଡ଼ିଆ ଓଷା ବ୍ରତ ଓ ପର୍ବପର୍ବାଣି ।

ସହାୟକ ଗ୍ରନ୍ଥସୂଚୀ :

୧. ଓଡ଼ିଶାର ସାଂସ୍କୃତିକ ଇତିହାସ - ସଂସ୍କୃତି ବିଭାଗ, ଓଡ଼ିଶା

୨. ଓଡ଼ିଶାର ସାଂସ୍କୃତିକ ଇତିହାସ - ପ୍ରବୋଧ କୁମାର ମିଶ୍ର, ବିଦ୍ୟାପୁରୀ, କଟକ

୩. ଓଡ଼ିଆ ସାହିତ୍ୟର ସାମାଜିକ ଓ ସାଂସ୍କୃତିକ ଇତିହାସ - ଚିତ୍ତରଞ୍ଜନ ଦାସ, ଓ.ରା.ପା.ପ୍ର. ଓ ପ୍ରକାଶନ ସଂସ୍ଥା, ଭୁବନେଶ୍ୱର

୪. ଓଡ଼ିଶାର ଧର୍ମଧାରା - କାହ୍ନୁଚରଣ ମିଶ୍ର, ଓ.ରା.ପା.ପ୍ର. ଓ ପ୍ରକାଶନ ସଂସ୍ଥା, ଭୁବନେଶ୍ୱର

୫. ବୈଷ୍ଣବ ସାହିତ୍ୟ ତତ୍ତ୍ୱ - ଆଶୁତୋଷ ପଟ୍ଟନାୟକ, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

୬. ଓଡ଼ିଆ ସାହିତ୍ୟରେ ଶୈବଧର୍ମ - କୃଷ୍ଣଚନ୍ଦ୍ର ପ୍ରଧାନ, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

୭. ଓଡ଼ିଆ ସାହିତ୍ୟରେ ଶ୍ରୀଜଗନ୍ନାଥ - ବାସୁଦେବ ସାହୁ, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

୮. ଲୀଳାମୟ ନୀଳାଦ୍ରୀଶ - ସଂପାଦନା, ଭୁବନେଶ୍ୱର ଭଞ୍ଜ ଭାରତୀ (୧ମ ଭାଗ ଓ ୨ୟ ଭାଗ)

୯. ଓଡ଼ିଆ ବ୍ରତ ସାହିତ୍ୟ - ଅରବିନ୍ଦ ପଟ୍ଟନାୟକ, ଓଡ଼ିଶା ସାହିତ୍ୟ ଏକାଡେମୀ

2. Nano science and nano technology, K.K. Choudhary (Narosa)-2016

Reference Books:

1. Nano Science and nano technology, Sundar Singh (Pragati Prakashan)-2017
2. C.P. Poole, Jr. Frank J. Owens, Introduction to Nanotechnology (Wiley India Pvt. Ltd.)-2007
3. Richard Booker, Earl Boysen, Nanotechnology(John Wiley and Sons)-2005
4. M. Hosokawa, K. Nogi, M. Naita, T. Yokoyama, Nanoparticle Technology Handbook (Elsevier, 2007)
5. K.K. Chattopadhyaya and A. N. Banerjee, Introduction to Nanoscience and Technology (PHI Learning Private Limited)-2009

Discipline Specific Elective Paper-1V

Project

OR

Basic Instrumentation

Basic Instrumentation

UNIT-I

Basic of Measurement: Instruments accuracy, precision, sensitivity, resolution range etc. Errors in measurements and loading effects.

Multimeter: Principles of measurement of dc voltage and dc current, ac voltage, ac current and resistance. Specifications of a multimeter and their significance.

Electronic Voltmeter: Advantage over conventional multimeter for voltage measurement with respect to input impedance and sensitivity. Principles of voltage measurement (block diagram only). Specifications of an electronic Voltmeter/ Multimeter and their significance.

AC mill voltmeter: Type of AC mill voltmeters: Amplifier- rectifier, and rectifier-amplifier. Block diagram ac mill voltmeter, specifications and their significance.

UNIT-II

Cathode Ray Oscilloscope: Block diagram of basic CRO. Construction of CRT, Electron gun, electrostatic focusing and acceleration (Explanation only no mathematical treatment), brief discussion on screen phosphor, visual persistence and chemical composition. Time base operation, synchronization. Front panel controls. Specifications of a CRO and their significance.

Use of CRO for the measurement of voltage (dc and ac frequency, time period. Special features of dual trace, introduction to digital oscilloscope, probes. Digital storage Oscilloscope: Block diagram and principle of working.

UNIT-III

Signal Generators and Analytical Instruments: Block diagram, explanation and specifications of low frequency signal generators, pulse generator, and function generator, Brief idea for testing, specifications, Distortion factor meter, wave analysis.

UNIT-IV

Digital Instruments: Principle and working of digital meters, Comparison of analog and digital instruments, Characteristics of a digital meter, Working principles of digital voltmeter.

Digital Multimeter: Block diagram and working of a digital multimeter, Working principle of time interval, frequency and period measurement using universal counter/frequency counter, time-base stability, accuracy and resolution.

The test of lab skills will be of the following test items:

1. Use of an oscilloscope.
2. CRO as a versatile measuring device.
3. Circuit tracing of Laboratory electronic equipment,
4. Use of Digital multimeter /VTVM for measuring voltages
5. Circuit tracing of Laboratory electronic equipment,
6. Winding a coil /transformer.

7. Study the layout of receiver circuit.
8. Trouble shooting a circuit
9. Balancing of bridges

Laboratory Exercises:

1. To observe the loading effect of a multimeter while measuring voltage across a low resistance and high resistance.
2. To observe the limitations of a multimeter for measuring high frequency voltage and currents.
3. To measure Q of a coil and its dependence on frequency, using a Q-meter.
4. Measurement of voltage, frequency, time period and phase angle using CRO.
5. Measurement of time period, frequency, average period using universal counter/ frequency counter.
6. Measurement of rise, fall and delay times using a CRO.
7. Measurement of distortion of a RF signal generator using distortion factor meter.
8. Measurement of R, L and C using a LCR bridge/universal bridge.

Open Ended Experiments:

1. Using a Dual Trace Oscilloscope
2. Converting the range of a given measuring instrument (voltmeter, ammeter)

More emphasis should be given on hands-on experiments.

Text Books:

1. A Text Books book of electrical technology-B.L. Theraja and A.K. Theraja (S. Chand Publishing)-2014
2. Digital circuits and systems Venugopal (Tata McGraw Hill)-2011

Reference Books :

1. Digital Electronics-Subrata Ghoshal (Cengage Learning)-2017
2. Electronic Devices and circuits - S. Salivahanan and N. S.Kumar (Tata Mc-Graw Hill)-2012
3. Electronic Devices-Thomas L. Floyd (Pearson)-2015

Additional Reference Books for Practical papers:

1. An advanced course in Practical Physics- Chattopadhyay, Rakshit-

Central-2013

2. Practical Physics-B.B.Swain (Kitab Mahal)-2014
3. Advanced practical Physics-B.Ghosh and KG Majumdar (Vol. I and II)-Shreedhar Publication-2004
4. A Laboratory Manual of Physics for Undergraduate Classes, D.P. Khandelwal (Vani Publication)-1985
5. B.Sc. Practical Physics- C.L.Arora (S.Chand Publishing)-2010
6. B.Sc. Practical Physics H. Singh and P.S. Hemne (S. Chand Publishing)-2002

GENERIC ELECTIVE (GE)

Generic Elective Paper I

(Mechanics and Properties of matter, Oscillation and Waves, Thermal Physics, Electricity and Magnetism and Electronics)

UNIT-I

Mechanics and Properties of Matter

Moment of Inertia Parallel axis and perpendicular axis theorem, M.I. of a Solid sphere and Solid cylinder, Gravitational potential and field due to a thin spherical shell and a solid sphere at external points and internal points, Relation among elastic constants, depression at free end of a light cantilever, Surface tension, pressure, difference across a curved membrane, viscous flow, Poiseuille's formula.

UNIT-II

Oscillation and Waves

Simple harmonic motion, damped harmonic motion, under damped, over damped and critically damped motion, Forced vibration, Resonance, Wave equation in a medium, Velocity of Longitudinal waves in an elastic medium and velocity of transverse wave in a stretched string, Composition of SHM, Lissajous figures for

- P. Swaminathan, (2012) 'Introduction', in *Women and Work*, Hyderabad: Orient Blackswan.
- R. Kapur, (2012) 'Hecklers to Power? The Waning of Liberal Rights and Challenges to Feminism in India', in A. Loomba *South Asian Feminisms*, Durham and London: Duke University Press.
- U. Chakravarti, (2003) *Gendering Caste through a Feminist Lens*, Kolkata, Stree publications.
- V. Bryson, (1992) *Feminist Political Theory*, London: Palgrave-MacMillan.

DSE Paper – IV

DISSERTATION / RESEARCH PROJECT

(College can give this choice only for students with above 60% aggregate marks)

Project Paper- Development Process and Social Movements in Contemporary India (DSE-II)

Introduction:

The research experience of students is greatly enriched by early exposure to conducting research. There are numerous benefits of undergraduate students who get involved in research. They are better off in understanding published works, determine an area of interest, can discover their passion for research and may start their career as a researcher. Further students will be able to develop ability for scientific inquiry and critical thinking, ability in the knowledge base and communication. This course is included to promote above mentioned abilities among the students.

Learning Objectives:

- To help students to learn how to develop scientific research designs in the study of public administration.
- To guide students to understand the previous research in their field of interest and review them to arrive at a research problem
- To encourage the students to learn ways to describe and evaluate public policy implementation.
- To help students understand the logic of hypothesis testing in both quantitative and qualitative research.
- To make students to learn the methods of writing a research report.

Expected outcomes: Students will be able to

- Independently prepare a research design to carry out a research project
- Review the related research papers to find out a research problem and relevant hypotheses
- Understand the dynamics of citizen – administrative interface and administrative behaviours.
- Learn the use of statistical techniques for interpretation of data.
- Learn the APA style of reporting a research project.

Unit I A student is required to carry out a project on an issue of interest to him / her under the guidance and supervision of a teacher. In order to do so s/he must have the knowledge in research methodology and of steps in planning and conducting a research. The supervisors

may help the students to go on field study / study tour relevant to their work. Thirty hours of class may be arranged in the routine to help students understand research methodology, and planning, conduction and reporting on the research. An external examiner with the supervisor as the internal examiner will evaluate the research project on the basis of scientific methodology in writing the report, and presentation skill and performance in the viva.

- **Format**

Abstract – 150 words including problem, method and results.

Introduction – Theoretical considerations leading to the logic and rationale for the present research

Review- Explaining current knowledge including substantive findings and theoretical and methodological contributions to the topic, objectives and hypotheses of the present research

Method – Design, Sample, Methods of data collection, Procedure

Results- Quantitative analysis of group data-- (Raw data should not be attached in Appendix) Graphical representation of data wherever required.→ Qualitative analysis wherever done should indicate the method of→ qualitative analysis.

Discussion

References (APA Style) & Appendices

- Project should be in Soft binding. It should be typed in Times New Roman 14 letter size with 1.5 spacing on one sides of the paper. Total text should not exceed 50 pages (References & Appendices extra).
- Two copies of the project should be submitted to the College.
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" # \$ " % #

Mark distribution for dissertation / Research project

Identification of problem	Review of Literature	Methodology	Analysis	Findings	Viva-voce	Total
10	10	10	25	20	25	100

Broad areas identified for Project: Social Movements: Environment, Women, Dalit, Peasant, Social Development, Political Development in Odisha, Political Socialization, Political Participation, Political Modernization and Communication, Decentralized democracy: Rural and Urban Local Self Governance, Functionary of Gram Sabha, Empowerment of Women and other marginals in PRIs, Development, Displacement, Rehabilitation, Resettlement in Odisha, Role of NGOs in Development, Regional Development and Regional Imbalances, Implementation of ORTPS- 2012, RTE-2009, Food Security Act, 2013, FRA, 2007.

Generic Elective Paper I

FEMINISM: THEORY AND PRACTICE

Introduction: The aim of the course is to introduce students to contemporary debates on feminism

SUGGESTED READINGS

1. Woodroffe R., Thirgood, S. and Rabinowitz, A. (2005). People and Wildlife, Conflict or Co-existence? Cambridge University.
2. Bookhout, T.A. (1996). Research and Management Techniques for Wildlife and Habitats, 5 th edition. The Wildlife Society, Allen Press.
3. Sutherland, W.J. (2000). The Conservation Handbook: Research, Management and Policy. Blackwell Sciences.
4. Hunter M.L., Gibbs, J.B. and Sterling, E.J. (2008). Problem-Solving in Conservation Biology and Wildlife Management: Exercises for Class, Field, and Laboratory. Blackwell Publishing.

Discipline Specific Elective Paper-IV

Economic Zoology

Unit 1: Bee-keeping and Bee Economy (Apiculture)

Varieties of honey bees and Bee pasturage; Setting up an apiary: Langstroth's/Newton's hive, bee veil, brood and storage chambers, iron frames and comb sheets, drone excluder, rearing equipments, handling of bees, artificial diet; Honey extraction techniques; Physico-chemical analysis of honey; Other beneficial products from bee.

Unit 2: Silk and Silk Production (Sericulture)

Different types of silk and silk worms in India; Rearing of Bombyx mori, Rearing racks and trays, disinfectants, rearing appliances, black boxing, Chawki rearing, bed cleaning, mountages, harvesting of cocoons; Silkworm diseases: Pebrine, Flacherie, Grasserie, Muscardine and Aspergillosis, and their management; Silkworm pests and parasites: Uzi fly, Dermestid beetles and their management; Silk reeling techniques and Quality assessment of silk fibre.

Unit 3: Aquaculture

Induced breeding of fish; Management of hatchery of fish; Management of nursery, rearing and stocking ponds; Preparation and maintenance of fish aquarium; Preparation of compound diets for fish; Role of water quality in aquaculture; Fish diseases: Bacterial, viral and parasitic; Preservation and processing of harvested fish; Fishery by-products. Prawn farming; Culture of crab; Pearl culture.

Unit 4: Dairy and Poultry Farming

Introduction; Indigenous and exotic breeds; Rearing, housing, feed and rationing; Commercial importance of dairy and poultry farming; Varietal improvement techniques; Diseases and their management; Dairy or poultry farm management and business plan; Visit to any dairy farm or Poultry farm.

PRACTICAL

1. Submission of report on anyone field visits related to Aquaculture/Apiculture/Sericulture/Poultry/ Dairy farm.
2. Study of different types of bees (Queens, Drones and Worker bees).
3. Study of different types of silk moths.
4. Study of different types of pearls.
5. Study of different types of fish diseases.
6. Identification of different types of scales in fishes.
7. Study of different types of fins.

8. Study of different modified structures of fishes (Saw of sawfish, Hammer of hammer head fish, tail of sharks etc.)
9. Identification of various types of natural silks.

TEXT BOOKS

1. Sarkar, Kundu and Chaki. (2014) Introduction to Economic Zoology. NCBA Publisher.
2. T.V.R. Pillay (Author), M.N. Kutty (2011) Aquaculture: Principles and Practices, Wiley India Pvt Ltd; Second edition

SUGGESTED READINGS

1. Dhyan Singh Bisht, Apiculture, ICAR Publication.
2. Dunham RA (2004) Aquaculture and Fisheries Biotechnology – Genetic Approaches. CABI publications, U.K.
3. Hafez ESE (1962) Reproduction in Farm Animals. Lea and Fabiger Publishers.
4. Knobil E and Neill JD (2006) The Physiology of Reproduction. Vol.2. Elsevier Publishers, USA.
5. Prost PJ (1962) Apiculture. Oxford and IBH, New Delhi.
6. Singh S. Beekeeping in India, Indian council of Agricultural Research, New Delhi.
7. Srivastava CBL (1999) Fishery Science and Indian Fisheries. Kitab Mahal publications, India.

OR

Project Work

Each student has to undertake a project work under the guidance of a teacher and submit the project report in the form of a thesis. There will be a presentation of the project work before an external examiner.

Generic Elective Paper I

Animal Diversity

Unit 1: Protista, Porifera, Radiata, Aceolomates and Pseudocoelomates

General characters of Protozoa; Life cycle of Plasmodium, General characters and canal system in Porifera, General characters of Cnidarians and polymorphism, General characters of Helminthes; Life cycle of Taenia solium, General characters of Nemethehelminthes; Parasitic adaptations

Unit 2: Coelomate Protostomes, Arthropoda, Mollusca and Coelomate Deuterostomes

PRACTICAL

- 1.Principles and functioning of instruments in microbiology laboratory
- 2.Hands on sterilization techniques and preparation of culture media
3. Screening microorganisms for industrial use.
4. Mycorrhiza, arbuscular mycorrhizal colonization in plant roots
5. Determination of BOD, COD, TDS and TOC of water samples;
6. Microorganisms as indicators of water quality

Text Books:

1. P. D. Sharma. (2017) Environmental Microbiology. Rastogi Publications, Meerut.

Suggested Readings

1. Pelzar, M.J. Jr., Chen E.C. S., Krieg, N.R. (2010). Microbiology: An application based approach. Tata McGraw Hill Education Pvt. Ltd., Delhi.
2. Tortora, G.J., Funke, B.R., Case. C.L. (2007). Microbiology. Pearson Benjamin Cummings, San Francisco, U.S.A. 9th edition.
3. Pradipta K. Mohapatra (2008). Text Book of Environmental Microbiology, I. K. International Publishing House, New Delhi
4. A. K. Rath (2018). Industrial and Environmental Microbiology, Kalyani Publishers, New Delhi.

OR

Discipline Specific Elective Paper-IV DISSERTATION / PROJECT WORK

Identification of problem	Review of Literature	Methodology	Findings	Analysis	Viva-Voce	Total
10	10	10	25	25	20	100

** = Students who score more than $\geq 60\%$ in aggregate are eligible for project work

Publishers, New Delhi.

4. W. D. Kingery, H. K. Bowen, D. R. Uhlmann: Introduction to Ceramics, Wiley Publishers, New Delhi.
5. J. A. Kent: Riegel's Handbook of Industrial Chemistry, CBS Publishers, New Delhi.
6. P. C. Jain, M. Jain: Engineering Chemistry, Dhanpat Rai & Sons, Delhi.
7. R. Gopalan, D. Venkappayya, S. Nagarajan: Engineering Chemistry, Vikas Publications, New Delhi.

Alternative to DSC CORE PAPER IV

Discipline Specific Elective Paper- V

DISSERTATION

A project work is to be carried out by the student in consultation with the teachers of the department. The report of work (dissertation) in a standard format is to be submitted and presented for evaluation.

Distribution of marks

- (a) Project Report/Dissertation (Proper documentation of literature, data, discussion etc. and logical flow of work undertaken): 50 Marks
- (b) Seminar/Presentation: 30 marks
- (c) Viva voce: 20 marks

Brief Guidelines to Project Work:

1. Students shall undertake the project work (experimental/theoretical) related to any branch of chemistry/Chemical science under the guidance of teacher(s) from the department or jointly with teachers/research personnel of other institutes.
2. The following activities have been outlined as guidelines (not exhaustive):
 - Physiochemical studies (pH, conductivity, turbidity, etc.) of different wetlands (ponds, lakes, river etc.)
 - Analysis of iron in pond / tube well / river water.
 - Analysis of Hardness of water samples.
 - Adulteration detection activities in food stuff and other edible items.
 - Extraction and preliminary characterization of useful chemicals (as far as possible) from plants.
 - Solubility, surface tension, and viscosity measurements of some solution of practical

- relevance, (cough syrup, soap solution, pesticides, fertilizers.. etc.)
- Pollution related activities (Industrial/Agricultural/Municipal etc.)
 - Nutrition related activities, (essential metal detection in food, cereals, pulses, fruits etc.).
 - Small synthetic work (inorganic/Organic/Polymeric compounds)
2. The UG level project work is a group activity, maximum number of students being limited to three. HOD to notify the name of teacher(s) for supervising the project work of each group. A teacher can guide more than one group, if necessary.
 4. No two groups in the same institution are permitted to do project work on the same problem.
 5. Each student shall prepare and submit the project report separately for evaluation. Two copies of project report are required to be submitted in bound form (spiral/paperback).
 6. The project report shall be divided as:
 - Chapter I: Introduction (Introduction on the topic, review of literature, objective and scope of the work)
 - Chapter II: Materials and methods
 - Chapter II: Results and discussion
 - Chapter IV: Conclusions and Scope of future studies
 - Chapter V: References

Reference Books:

1. M. A. Malati, An Investigative, Integrated Approach to Practical Project Work; Mid-Kent College of Higher/Further Education, UK (October 1999); Imprint: Woodhead Publishing; ISBN: 978-1-898563-47-1.
2. Dean, J. R., Jones, A. M., Holmes, D., Reed, R., Weyers, J. & Jones, A. (2011) Practical skills in chemistry. 2nd Ed., Prentice-Hall, Harlow.

Alternative for Discipline Specific Elective (DSE) Papers

Discipline Specific Elective Paper-VI

- Gore, M.C. (2004) . *Successful Inclusion Strategies for Secondary and Middle School Teachers*, Corwin Press, Sage Publications.
- Hegarthy, S. & Alur, M. (2002). *Education of Children with Special Needs: from Segregation to Inclusion*. Corwin Press, Sage Publishers.
- Karant, P., & Rozario, J. ((2003). *Learning Disabilities in India*. Sage Publications.
- Karten, T. J. (2007). *More Inclusion Strategies that Work*. Corwin Press, Sage Publications.
- King□Sears, M. (1994). *Curriculum□Based Assessment in Special Education*. California: Singular Publications.
- Kluth, P. (2009). *The autism checklist: A practical reference for parents and teachers*. San Francisco, CA: Jossey-Bass.
- Lewis, R. B., & Doorlag, D. (1995). *Teaching Special Students in the Mainstream*. 4th Ed. New Jersey: Pearson.
- Rayner, S. (2007). *Managing Special and Inclusive Education*, Sage Publications.
- Rose, D. A., Meyer, A. & Hitchcock, C. (2005). *The Universally Designed Classroom: Accessible Curriculum and Digital Technologies*. Cambridge, MA: Harvard Education Press.
- Ryandak, D. L. & Alper, S. (1996). *Curriculum Content for Students with Moderate and Severe Disabilities in Inclusive Setting*. Boston, Allyn and Bacon.
- Thousand, J., Villa, R., & Nevin, A. (2007). *Differentiating instruction: Collaborative planning and teaching for universally designed learning*. Thousand Oaks, CA: Corwin Press.
- Turnbull, A., Turnbull, R., Turnbull, M., & Shank, D.L. (1995). *Exceptional Lives: Special Education in Today's Schools*. 2nd Ed. New Jersey: Prentice□Hall.Inc
- Udvari-Solner, A. & Kluth, P. (2008). *Joyful Learning: Active and collaborative learning in inclusive classrooms*. Thousand Oaks, CA: Corwin Press.

DSE Paper – IV

DISSERTATION/ RESEARCH PROJECT

(College can give this choice only for students with above 60% aggregate marks)

The students will select a research project on any Educational issue or problem or topic and prepare a report. The project will be prepared based on proposal already developed in Semester-III, Core-6.

Distribution of Marks will be as follows:

Item	Total
Report	75
Viva-voce	25
Total	100

The assessment of students' performance will be made jointly by the external and

internal examiners.

Generic Elective Paper I

EDUCATIONAL PHILOSOPHY

Learning Objectives

On completion of this course, the learners shall be able to:

- State and analyse the meaning of education and form own concept on education
- Explain philosophy as the foundation of education
- Analyse aims of education
- Describe the essence of different formal philosophies and draw educational implications
- Compare and contrast Indian and western philosophies of education

UNIT 1: Education in Philosophical Perspective

- (i) Etymological meaning of education
- (ii) Narrower and broader meaning of education, lifelong education
- (iii) Aims of Education- Individual and Social aims of education
- (iv) Meaning and nature of philosophy
- (v) Branches of Philosophy- Metaphysics, epistemology and axiology, and its educational implications
- (vi) Functions of Philosophy in relation to education

5. N.K. Sahu, Buddhism in Orissa.

Discipline Specific Elective Paper-IV (Optional/Project)

History of Contemporary Odisha (1947-1980)

Unit I: Political Developments

1. Second Congress Ministry (1946-1950):

- a) Integration of Princely States with Odisha
- b) New Capital
- c) Hirakud Dam Project

2. Years of Uncertainties (1950-1980)

- a) Third Congress Ministry and Abolition of Zamindari System
- b) Biju Patnaik's First Ministry Achievements

Unit II: United Political Initiatives

1. Coalition Politics-Achievements and Challenges

- a) R.N. Singdeo,
- b) Sadasiba Tripathy

2. Panchayati Raj Institutions-Its Working and Impacts.

- a) Rural Stages
- b) Urban Stages

Unit III: Economic Development

- a) Growth of Industries- Roulkela Steel Plant and Odisha Sponge Iron Ltd.
- b) Irrigation and Agricultural Infrastructure
- c) Development in Transport and State communication- National and State High Ways in Odisha

Unit IV: Social Developments and Problems

- a) Government Community Development Programmes- Its Impact
- b) Peasant Movements: Causes and Effects
- c) Growth of Art and Craft: Raghunathpur, Pipli and Bargarh

Suggested Text Books:

1. Hemant K. Mohapatra, Odisara Etihasha (Odia), Friends Publishers, Cuttack, 2019.
2. Sukadeva Nanda, Coalition Politics in Odisha, Sterling Publishers, Delhi.

Reference Reading:

1. Sunit Ghosh, Orissa in Turmoil: A Study in Political Developments, Bookland International, Bhubaneswar, 1991.
2. Basant Das, Odisha Rajanitira Gopan Katha (Odia), Anusandhan Publication, Bhubaneswar, 2001.
3. B.B. Jena & J.K. Baral (eds), Government and Politics in Orissa, Print House (India), Lucknow, 1988.
4. Chittaranjan Das, Nabakrushna Chaudhury, NBT, New Delhi.
5. Dasarathi Bhuyan, Orissa Politics: From 1936 to Contemporary Politics, Mangalam Publishers, New Delhi, 2010.

OR

Project Report

The Students may be allotted topics of their interest in the beginning of 5th Semester Classes. They may write the Project Reports on local History and Culture, local personalities with their significant contribution to change the Society and economy with historical perspective containing up to 50 double spaced typed pages. The students may consult the sources like local archaeology, manuscripts, community documents, oral traditions, oral narratives, local biographies and family sources for writing the project dissertation. The Teachers will guide the students to complete their Project assignments. The students may be allowed to fill up their forms after their submission of the projects assigned to them. The student has to secure fifty percent of marks from the evaluation of the project and fifty percent of the marks in the viva voce test which are compulsory.

Generic Elective Paper I

History of India - I (Early Times to 1750)

Unit – I : Reconstructing Ancient Indian History

- 1.Sources of Historical Writings.
- 2.Vedic Age : Society, Polity and Culture
- 3.Buddhism and Jainism : Principles and Impact

Unit – II : Polity and Administration

- 1.The Mauryan Empire : Conquest and Administration
- 2.Gupta Society : Land Grants, Peasantry and beginning of Feudal Society
- 3.Gupta Polity : Conquests and Administration
- 4.Harshavardhan : Achievements

Unit – III: Early Medieval Society, Economy and Culture

- 1.Post Gupta Trade and Commerce
- 2.Delhi Sultanate : Conquests and Administration
- 3.Bhakti and Sufi Movements in India
- 4.Development of Regional Language and Literature

Unit – IV: India on the Eve of the Advent of the Mughals

- 1.Sher Shah : Administration and Reforms
- 2.Mughal Administrative Institutions : Zabt, Mansab and Jagir
- 3.Religious Tolerance Sulh-i- Kul
- 4.Mughal Art and Architecture

Suggested Text Books:

- 1.Upinder Singh, History of Ancient & Early Medieval India.
2. Romila Thappar, The Early India

Reference Reading: