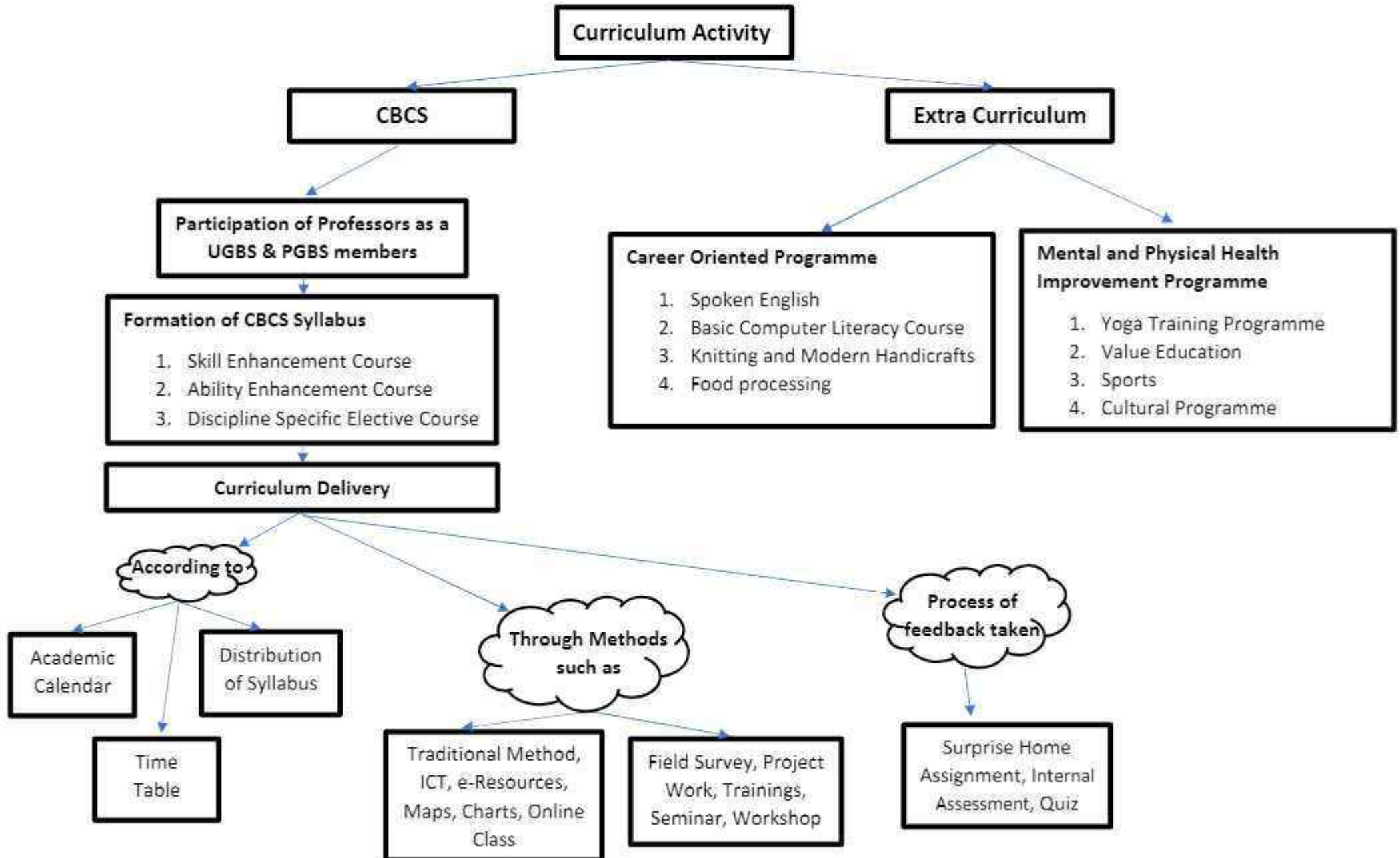


**1.1.1 - The Institution  
ensures effective  
curriculum delivery  
through a well planned  
and documented  
process**



# Ramananda College

## 1.1.1 Curriculum Planning and Delivery Process



# Academic Calender



# RAMANANDA COLLEGE

## Academic Calendar (2022-2023)

JULY- 2022	
<b>Holidays: 01 (9<sup>th</sup>)</b>	<b>Working Days: 25</b>
College Foundation Day	1 <sup>st</sup> July
Final Exam Start of PG 2 <sup>nd</sup> & 4 <sup>th</sup> Sem	4 <sup>th</sup> - 27 <sup>th</sup>
Final Exam end of UG Even Sem	19 <sup>th</sup>
Admission process of B.A./B.Sc./B.Com 1 <sup>st</sup> Sem start	18 <sup>th</sup>
Admission of B.A./B.Sc./B.Com 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	22 <sup>nd</sup> - 27 <sup>th</sup>
Commencement of Classes of B.A./B.Sc./B.Com. 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	27 <sup>th</sup>
AUGUST- 2022	
<b>Holidays: 03 (9<sup>th</sup>, 11<sup>th</sup>, 19<sup>th</sup>)</b>	<b>Working Days: 24</b>
Distribution of Marksheet of 5 <sup>th</sup> Sem Regular classes	3 <sup>rd</sup> & 4 <sup>th</sup> Throughout the month
SEPTEMBER- 2022	
<b>Holidays: 02 (17<sup>th</sup>, 30<sup>th</sup>)</b>	<b>Working Days: 24</b>
Distribution of Marksheet of PG 4 <sup>th</sup> Sem	9 <sup>th</sup> & 10 <sup>th</sup>
Marksheet distribution from 2017-18 to 2020-21 all UG students	13 <sup>th</sup> to 15 <sup>th</sup>
Registration certificate of PG 1 <sup>st</sup> Sem	9 <sup>th</sup>
Admission process of B.A./B.Sc./B.Com 1 <sup>st</sup> Sem end for 1 <sup>st</sup> Portal	15 <sup>th</sup>
Admission process of B.A./B.Sc./B.Com 1 <sup>st</sup> Sem start for 2 <sup>nd</sup> Portal	16 <sup>th</sup>
Commencement of Classes & verification start of 1 <sup>st</sup> Sem	19 <sup>th</sup>
Registration certificate of UG students	27 <sup>th</sup>
Verification of 1 <sup>st</sup> Sem who are admitted in 2 <sup>nd</sup> Portal	29 <sup>th</sup>
OCTOBER- 2022	
<b>Holidays: 31 (1<sup>st</sup> - 31<sup>st</sup>)</b>	<b>Working Days: 00</b>
College closed (Durga Puja, Fatcha Doaz & Laxmi Puja, Kali Puja, Eid and Chbath Puja)	1 <sup>st</sup> - 31 <sup>st</sup>
NOVEMBER- 2022	
<b>Holidays: 02 (8<sup>th</sup>, 15<sup>th</sup>)</b>	<b>Working Days: 24</b>
Regular classes	Throughout the month
Enrollment of 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	1 <sup>st</sup> - 7 <sup>th</sup>
Induction Meeting of 1 <sup>st</sup> Sem	14 <sup>th</sup>
Internal Assesment of 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	17 <sup>th</sup> - 21 <sup>st</sup>
Admission of PG 3 <sup>rd</sup> Sem	17 <sup>th</sup> - 21 <sup>st</sup>



  
 26/7/2022  
 Principal  
 Ramananda College  
 Bishnupur, Bankura



Enrollment of PG 3 <sup>rd</sup> Sem	17 <sup>th</sup> - 23 <sup>rd</sup>
Enrollment of UG 1 <sup>st</sup> Sem	23 <sup>rd</sup> - 30 <sup>th</sup>
Admission of PG 1 <sup>st</sup> Sem	25 <sup>th</sup> - 30 <sup>th</sup>
Departmental Seminar/Webinar	Within this month
<b>DECEMBER- 2022</b>	
<b>Holidays: 09 (23<sup>rd</sup> - 31<sup>st</sup>)</b>	<b>Working Days: 19</b>
Mark sheet Distribution of 2020-21 session student	1 <sup>st</sup> - 7 <sup>th</sup>
Regular Classes	Throughout the month
Internal Assessment of 1 <sup>st</sup> Sem	12 <sup>th</sup> - 17 <sup>th</sup>
Library Card Distribution of PG 1 <sup>st</sup> Sem	12 <sup>th</sup> - 14 <sup>th</sup>
Enrolment of PG 1 <sup>st</sup> Sem	21 <sup>st</sup> - 23 <sup>rd</sup>
Form fill-up of UG 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	23 <sup>rd</sup> - 7 <sup>th</sup> (January)
<b>JANUARY- 2023</b>	
<b>Holidays: 02 (14<sup>th</sup>, 25<sup>th</sup>)</b>	<b>Working Days: 24</b>
Regular Classes	Throughout the month
Form fill-up of PG 3 <sup>rd</sup> Sem	3 <sup>rd</sup> - 9 <sup>th</sup>
Library Card Distribution of UG 1 <sup>st</sup> Sem	5 <sup>th</sup> - 20 <sup>th</sup>
Celebration of Student week	1 <sup>st</sup> - 7 <sup>th</sup>
Exam start of UG 3 <sup>rd</sup> & 5 <sup>th</sup> Sem	30 <sup>th</sup> - 16 <sup>th</sup> (February)
Student I Card Distribution for UG 1 <sup>st</sup> Sem	10 <sup>th</sup> - 20 <sup>th</sup>
Exam start of PG 3 <sup>rd</sup> Sem	30 <sup>th</sup> - 10 <sup>th</sup> (February)
Form fill-up of UG 1 <sup>st</sup> Sem	16 <sup>th</sup> - 18 <sup>th</sup>
<b>FEBRUARY- 2023</b>	
<b>Holidays: 02 (14<sup>th</sup> &amp; 18<sup>th</sup>)</b>	<b>Working Days: 22</b>
Exam start of UG 1 <sup>st</sup> Sem	17 <sup>th</sup> - 4 <sup>th</sup> (March)
Exam start of PG 1 <sup>st</sup> Sem	15 <sup>th</sup> - 24 <sup>th</sup>
Academic Excursion (Need Based)	Within two weeks
<b>MARCH- 2023</b>	
<b>Holidays: 02 (7<sup>th</sup> &amp; 8<sup>th</sup>)</b>	<b>Working Days: 25</b>
Regular classes	Throughout the month
Exhibition Competition	30 <sup>th</sup> - 31 <sup>st</sup>
<b>APRIL- 2023</b>	
<b>Holidays: 09 (13<sup>th</sup> - 15<sup>th</sup>, 17<sup>th</sup> - 22<sup>nd</sup>)</b>	<b>Working Days: 16</b>
Regular classes	Throughout the month
Admission of UG 2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> Sem	28 <sup>th</sup> - 4 <sup>th</sup> (May)
Enrolment of UG 2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> Sem	28 <sup>th</sup> - 9 <sup>th</sup> (May)
Admission of PG 2 <sup>nd</sup> & 4 <sup>th</sup> Sem	29 <sup>th</sup> - 2 <sup>nd</sup> (May)
Outreach Programme	3 <sup>rd</sup> week
<b>MAY- 2023</b>	
<b>Holidays: 05 (1<sup>st</sup>, 5<sup>th</sup>, 9<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>)</b>	<b>Working Days: 22</b>
Regular classes	Throughout the month
Internal Assessment for UG 6 <sup>th</sup> Sem	8 <sup>th</sup> - 16 <sup>th</sup>
Enrolment of PG 2 <sup>nd</sup> & 4 <sup>th</sup> Sem	3 <sup>rd</sup> - 9 <sup>th</sup>
Internal Assessment for PG 2 <sup>nd</sup> & 4 <sup>th</sup> Sem	16 <sup>th</sup> - 20 <sup>th</sup>
Internal Assessment for UG 2 <sup>nd</sup> & 4 <sup>th</sup> Sem	22 <sup>nd</sup> - 27 <sup>th</sup>



  
**Principal**  
 Ramnanda College,  
 Bihnapur, Bankura

JUNE- 2023

<i>Holidays: 01(20<sup>th</sup>)</i>	<i>Working Days: 25</i>
Study Leave	3 <sup>rd</sup> - 17 <sup>th</sup>
Student I Card Distribution for PG 2 <sup>nd</sup> Sem	5 <sup>th</sup>
Form fill-up of PG 4 <sup>th</sup> Sem	3 <sup>rd</sup> - 9 <sup>th</sup>
Form Fill-up of UG 6 <sup>th</sup> Sem	8 <sup>th</sup> - 14 <sup>th</sup>



*Mont*  
26/7/2023  
**Principal**  
**Ramenanda College**  
**Bishnupur, Bankura**

# Prospectus





# RAMANANDA COLLEGE

Bishnupur, Bankura, Pin- 722122, WB

UGC Recognized & State Government-Aided Constituent College  
of Bankura University

[Re-Accredited by NAAC (3rd Cycle) at B++ Level]

Website - [www.ramanandacollege.org](http://www.ramanandacollege.org)

## PROSPECTUS

2022

2023







# RAMANANDA COLLEGE

Bishnupur, Bankura, Pin- 722122, West Bengal

UGC Recognized & State Government Aided Constituent College  
of Bankura University

[Re-Accredited by NAAC at B++ Level (3rd Cycle)]

## MESSAGE

It is my proud privilege to have served this premier higher education institution as Principal for the last seven years. My aim is to make this college a centre of higher education that is dedicated to nation-building. The need of the hour is holistic education. I have made especial efforts to ensure the welfare of students and other stakeholders from the underprivileged classes and minorities, and that of our female students in particular.

I am delighted to announce that the National Assessment and Accreditation Council (NAAC) has awarded Ramananda College a B++ grade with a CGPA of 2.83 in 2021. This is the result of the third cycle of assessment of the college—a stage to which very few higher education institutions in West Bengal have progressed so quickly. This excellent rating is an affirmation of our college's excellence, and I hope that it will inspire us to work harder and take the college to greater heights in future. I thank each and every one of the stakeholders of the college for the effort they put in to ensure the success of this assessment.

During this year, we continued to meet the challenges presented to the educational system caused by the COVID-19 pandemic. We have organized a vaccination programme for students who were unable to obtain it on their own. We have improved our online learning delivery methods and continued to encourage virtual studying. We have tried our best to ensure that students have not suffered in terms of their studies, and also tracked their progress effectively through timely evaluations and assessments. The college has further developed its online platform for teaching and learning activities. Our faculty members are utilising various platforms to communicate satisfactorily with students, and have already completed the syllabi of the even semester on time. The IQAC of this institution has created an easily accessible online library of e-content and model questions for students and faculty members. Many of our departments have organized national and international-level webinars and online lecture series.

We are now looking forward to fully implementing a blended system of education as recommended by the University Grants Commission. With the resumption of in-person classes in November 2021, we have been not only been teaching students in classrooms, but also helping them get re-accustomed to classroom-based learning—especially those who had not entered a school or college classroom in the past two years. At the same time, we are continuing to use electronic and online teaching-learning methods more effectively so that students receive the best of both worlds.

The lifting of pandemic-related restrictions enabled to restart our annual cycle of co-curricular and extra-curricular activities. We could hold our annual College Sports in 2022, after a gap of nearly two years. We also conducted an intra-college Drama Competition, as well as the Annual Exhibition. Many of our students have performed well in sports and other extra-curricular activities. I am very proud of the fact that our student Panchu Duley was selected for the national U-19 Football Team in 2021.

In the academic year 2021-22, 16 students of our college (a record-breaking number) have qualified in the NET, SET and GATE examinations. I wish them all the best for their future.

Finally, in June 2022, we could organize the first-ever Legal Aid Camp in association with the college's Alumni Association, which saw the participation of district-level, sub-divisional, and local judges and law enforcement officials.

I would like to express my gratitude to Mr. Arup Chakraborty, Member, West Bengal Legislative Assembly, who is the President of the Governing Body of this college, for always encouraging, advising, and helping me to lead the college properly. I also thank other members of the Governing Body for cooperating with me in the administrative work of the college. Finally, I would like to thank the teachers and the non-teaching staff for always helping me whenever their help has been needed.

**DR. SWAPNA GHORAI**  
Principal  
Ramananda College  
Bishnupur, Bankura





# CAMPUS CODE OF CONDUCT FOR STUDENTS

## Ramananda College, Bishnupur, Bankura

1. Students are expected to maintain the highest standards of discipline and behave in a dignified manner both inside as well as outside the College campus. They shall abide by the rules and regulations of the College and should act in a way that highlights the strict discipline and the excellent reputation of the College.
2. All the students are expected to be present in the class well within time. Students shall rise from their seats when the teacher enters the class room and remain standing till the teacher takes her/his seat or they are allowed by the teacher to sit. Silence shall be observed during class hours. No student shall enter or leave the class room while a class is in progress without the permission of the teacher concerned.
3. Teachers shall be greeted appropriately with "Good Morning Sir/Madam" or "Good Afternoon Sir/Madam" when they enter the class room and a "Thank you Sir/Madam" when the teacher leaves the class room.
4. All students shall leave the classes immediately after the classes are over. No students shall wander or gather in the verandah, corridors, staircases, etc. They should not spend much time in canteens, coffee shops, etc.
5. All the students are expected to attend college functions, seminars, and conferences, and remain present for the entirety of all such events.
6. All the students must wear their identity cards, which should be properly displayed. The identity card is a public document and all teaching staff and non-teaching staff have the right to examine it. Denial of that alone will invite disciplinary action.
7. All kinds of tattooing, body piercing, hair styling, etc. that go against existing social norms will be referred to the Disciplinary Committee. Any dress code violations noticed within the campus will initiate further disciplinary action.
8. Students are expected to maintain silence in the academic buildings to maintain decorum. Any deviant behaviour such as hooting, whistling, loitering, etc. will be treated as instances of indiscipline.
9. For independent study, students are expected to use the class rooms, the library or the demarcated areas of the academic buildings. They shall not resort to sitting on staircases or other areas where they could interfere with the free movement of others.
10. Students are encouraged to make use of the library, the common computing facilities and to involve themselves in professional body activities and programmes authorized by the college beyond class hours. However, under normal circumstances students shall return to their hostels or residences by 6 p.m.
11. Students are expected to keep the campus neat and clean. They should not put any waste anywhere in the campus except in the waste baskets/bins.
12. Consumption of intoxicants or psychotropic substances in any form, smoking, or using chewing gum, *pan masala*, etc. are strictly prohibited inside the campus.
13. It is strongly advised to refrain from activities such as scribbling or noting on walls, doors or furniture, which could damage the college and destroy the academic ambience.
14. Students are advised to be very careful while handling the furniture, equipment, fixtures and appliances of the college and laboratories. Careless handling or misuse of these objects could result in physical injuries or damage to property. Follow safety precautions near moving machines and electrical installations. In the event of damage of property, the responsible students will have to bear the cost of replacement/repair along with a fine.
15. Students are not permitted to arrange any unauthorized celebrations and decorations of any kind in the campus.
16. Students are not permitted to distribute or display (both physically and electronically) material such as notices, banners, or similar material inside the campus without the permission of the competent authority.
17. Students are expected to make use of the academic, co-curricular and extra-curricular facilities available as much as possible. This will make them physically fit, academically competent, mentally alert, and socially sensitive.
18. Students who intend to represent the college in inter-collegiate events shall take prior permission from the concerned head of the department. The selection of such participants will be based on parameters such as academic performance,



attendance, the character and the competence of the student in the proposed event for participation.

19. Unauthorized meetings, propaganda work, processions, or fund collections are forbidden within the college, the hostels, the college grounds, and the approach roads.
20. Harassing juniors, ill-treatment of fellow students, or any form of ragging is objectionable and liable to be treated as a criminal offence by law enforcement agencies as per the directives of the Supreme Court of India.
21. Misbehaviour with women students or the use of threats or violence against members of the staff or fellow students will be considered to be very serious cases of misconduct.
22. Any violation of the rules stated here will invite penalties in the form of warnings, fines, summoning of parents, or any corrective measures found suitable by any staff member or the higher authority of the college.
23. **Mobile Phone Policy:** The purpose of this policy is to establish clear-cut guidelines regarding the usage of mobile phones inside the campus. This policy is applicable to students who enter the college campus. Realizing the importance of communication and the possible impact of mobile phone usage inside the campus, the following guidelines have been prescribed:

- (i) Students are not permitted to use mobile phones without just cause within the campus. However, the use of phones for academic purposes is allowed if prior permission from a teacher has been taken. Mobile phones must be kept in silent mode during class hours.
- (ii) Accessing social networking sites such as Facebook, WhatsApp, Twitter, etc. is prohibited within the college campus. However, access to these sites is permitted in the hostel buildings during time slots specified by the hostel wardens.

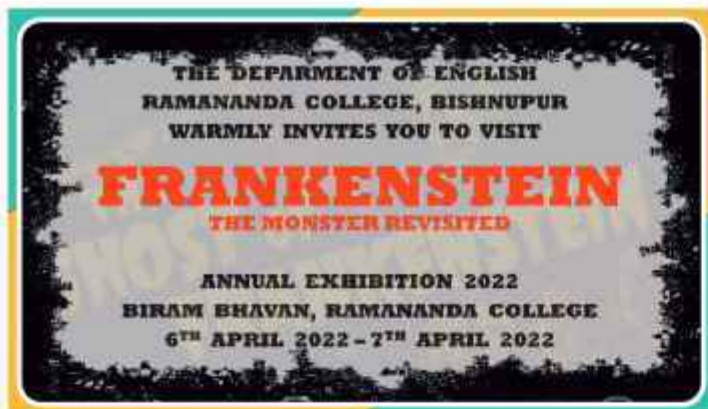
## AN INTRODUCTION TO OUR COLLEGE

Ramananda College is a pioneering higher-educational institution located in Bishnupur, in the district of Bankura. It is the sole co-educational degree college with PG courses recognized by the UGC within the town of Bishnupur. Since its inception in 1945, this institution has been serving the cause of higher education in the local community and also of students from remote villages. Even today, students from other districts study here.

Sri Ramnalini Chakraborty, a freedom-fighter and social worker of Bishnupur, Sri Radhagobinda Roy, the founder-principal of this college and a former minister in the Government of West Bengal, and other eminent community members of Bishnupur decided to establish this college here. Sri Ramnalini Chakraborty, the Koley family, Sri Anil Kumar Bhattacharya, members of the Friends' Union Club, and the community provided almost the entirety of the funds used to build this college. The college is named after a son of the soil, Sri Ramananda Chattopadhyay (1865-1943), a journalist, editor, and scholar who was active during the Bengal Renaissance.

Initially, the college was affiliated to the University of Calcutta, and later to the University of Burdwan. Since 1<sup>st</sup> January 2017, it has been affiliated to Bankura University. The college is recognized by the UGC under Sections 2F and 12B of the UGC Act, 1956. As the college was established before Independence, it predates the creation of the UGC as well as that of the University of Burdwan. In 2015, during the college's second assessment cycle, the National Assessment and Accreditation Council (NAAC) re-accredited the College with a score of 2.75. Furthermore, with the introduction of different Post-Graduate courses in Science and Humanities subjects, the college has become a constituent college of Bankura University. The college is also compliant with the vision and mission of RUSA.





Invitation Card, Annual Exhibition, April 2022



Greenery on Campus

## VISION AND MISSION OF THE COLLEGE

The vision of Ramananda College is to provide an innovative academic ambience, best standards, healthy practices, opportunities, and experiences that enable individuals, communities, and society as a whole to thrive, develop, and prosper. This institution of higher education is open to all irrespective of caste, creed, religion, or gender. Since its inception in 1945, the institution has been marching forward to become a centre of excellence for higher education, with the motto, "Sraddhabana Lavate Gyanam".

### Our Mission

- ✓ To provide adequate support to both teaching and learning through academic programmes and services.
- ✓ To be recognized nationally as an institution with a difference.
- ✓ To promote standard and quality education and ensure all-round development of the otherwise marginalized youth of the locality.
- ✓ To develop professionals who will be recognized globally for the quality and skill of their teaching, research, scholarship, and leadership.
- ✓ To inspire the faculty, staff, and students to be committed to the institution, to society, and, above all, to the nation.
- ✓ To promote women's education in the district of Bankura and adjacent areas.
- ✓ To facilitate the optimal use of resources and infrastructural facilities for expanding opportunities for all students and to develop an inter/multi-disciplinary approach amongst them.
- ✓ To inculcate social, cultural, scientific, and ethical values in the students.
- ✓ To produce resourceful teachers and scholars to be employed in different educational institutions and skilled professionals for industries.
- ✓ To equip learners with modern knowledge, competences, and skills, while remaining deeply attached to the cultural roots of the nation.

Initially, the college was affiliated to the University of Calcutta, and later to the University of Burdwan. Since 1<sup>st</sup> January 2017, it has been affiliated to Bankura University. The college is recognized by the UGC under Sections 2F and 12B of the UGC Act, 1956. As the college was established before Independence, it predates the creation of the UGC as well as that of the University of Burdwan. In 2015, during the college's second assessment cycle, the National Assessment and Accreditation Council (NAAC) re-accredited the College with a score of 2.75. Furthermore, with the introduction of different Post-Graduate courses in Science and Humanities subjects, the college has become a constituent college of Bankura University. The college is also compliant with the vision and mission of RUSA.

Project / Field Work  
Related Document

Botany



# A TAXONOMIC STUDY OF DIFFERENT SPECIES OF THE FAMILY SOLANACEAE FOUND AT BISEINUPUR

Dissertation work submitted for the partial fulfilment of M.Sc. course in Botany (special paper: Taxonomy of Angiosperms & Biosystematics) of Bankura University



Submitted by: Mampi Roy

UID NO.: 21173013023

Reg. No.: 00072 of 2018-19

M.Sc. 4th sem

Under supervision of Dr. Shyamal Kanti Mallick

Session: 2021-2023

## Taxonomic Survey of Malvaceae Family in Bankura Town.

Name: Abhik Pathak.

P.G 4<sup>th</sup> Sem

UID: 21173013029.

Registration No: 00026 of 18-19

Ramananda College (Bankura, University)

Course Code BOT /405/DN.

Course I'd: 41365

Course Title: Dissertation Work Academic Year: 2021-23

Study site: Bankura Town.

Sub: Botany(P.G)





**PHENOLOGICAL STUDY OF SOME DOMINANT TREE  
SPECIES OF SONAMUKHI FOREST REGION OF  
BANKURA DISTRICT, WEST BENGAL**



**SUBMITTED BY-ITU MANNA**

**UID-21173013038**

**REGISTRATION NO-00087 OF 2018-19**

**DEPARTMENT OF BOTANY**

**THE UNIVERSITY OF BANKURA**

**UNDER SUPERVISION OF DR SHYAMAL KANTI MALLICK**

**SESSION – 2021-2023**

THE UNIVERSITY OF BANKURA



MULTI-PATHIC EFFECTS OF *Chromolaena odorata* (L.)  
ON SEED GERMINATION OF CHICKPEA (*Cicer  
aryzinarum*), PEA (*Pisum sativum*) & MUNG BEAN (*Vigna  
radiata* L.)



**SUBMITTED BY** - Balaka Biswas

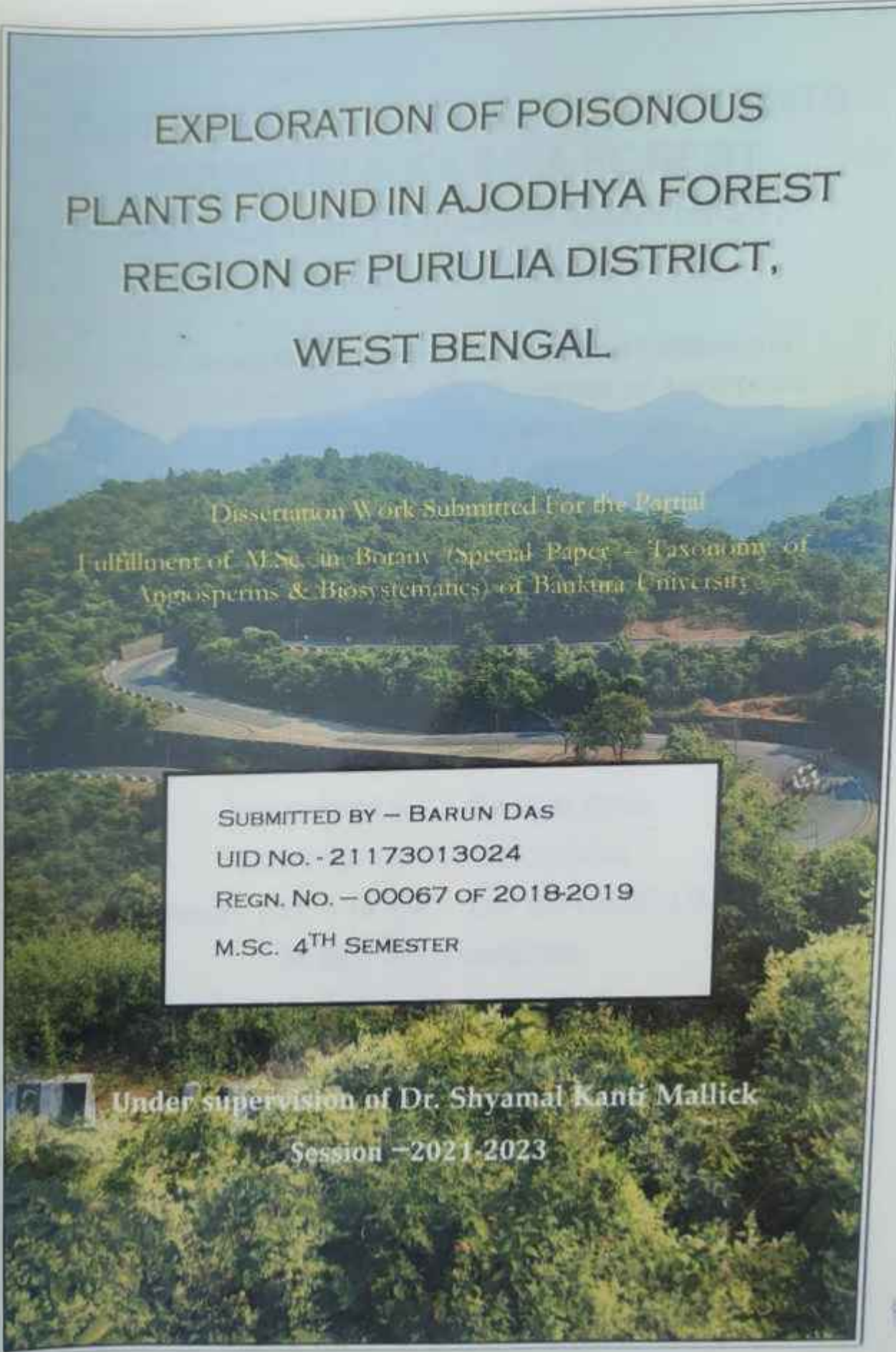
UID NO. - 21173013036

REGISTRATION NO. - 00085 of 2018-19

DEPARTMENT OF BOTANY

Session - 2021-23





EXPLORATION OF POISONOUS  
PLANTS FOUND IN AJODHYA FOREST  
REGION OF PURULIA DISTRICT,  
WEST BENGAL

*Dissertation Work Submitted for the Partial  
Fulfillment of M.Sc. in Botany (Special Paper – Taxonomy of  
Angiosperms & Biosystematics) of Bankura University.*

SUBMITTED BY – BARUN DAS  
UID No. - 21173013024  
REGN. No. – 00067 OF 2018-2019  
M.Sc. 4<sup>TH</sup> SEMESTER

Under supervision of Dr. Shyamal Kanti Mallick  
Session –2021-2023



**A TAXONOMIC SURVEY OF  
DIFFERENT SPECIES OF THE  
FAMILY FABACEAE FOUND AT  
BANKURA TOWN**

Dissertation work submitted for the partial fulfillment of  
M.Sc. Course in Botany ( special paper : Taxonomy of  
Angiosperms & Gymnosperms ) of Bankura University



**Submitted by : Riya Malgope**

**UID NO. : 21173013026**

**Reg. No. : 00035 of 2018-19**

**M.Sc. 4<sup>th</sup> sem**

**Under supervision by Dr. Shyamal Kanti Mallick**

**Session : 2021-2023**



**PHENOLOGICAL STUDY OF SOME DOMINANT TREE SPECIES OF  
BONBIRSINGHA FOREST REGION OF BANKURA DISTRICT,  
WEST BENGAL.**



DISSERTATION WORK SUBMITTED FOR THE PARTIAL FULFILMENT OF M.SC. COURSE IN  
BOTANY (SPECIAL PAPER: TAXONOMY OF ANGIOSPERMS & BIOSYSTEMATICS) OF  
BANKURA UNIVERSITY



SUBMITTED BY - RAKHI GHOSH

UID NO. - 21173013034

REGISTRATION NO. - 00090 OF 2018-19

M.SC. 4<sup>th</sup> SEM

DEPARTMENT OF BOTANY

BANKURA UNIVERSITY

UNDER SUPERVISION OF DR. SHYAMAL KANTI MALLICK

SESSION - 2021-23



**PHENOMICAL, TAXONOMIC, STUDY OF THE GENUS Solanum L. FROM VARIOUS LOCATION OF BANKURA TOWN TO CHHATNA OF DISTRICT BANKUR**

Preparation work submitted for the partial fulfillment of M.sc. course in Botany (Special paper: Taxonomy of Angiosperms & Biogeobotany) of Bankura University



SUBMITTED BY - NIMISHA DE

UID NO. - 21173013018

REGISTRATION NO. - 00036 OF 2018-2019

M.SC 4<sup>th</sup> SEM

DEPARTMENT OF BANKURA

THE UNIVERSITY OF BANKURA

UNDER SUPERVISION OF DR. SHYAMAL KANTI MALLIC

SESSION-2021-2023



# BANKURA UNIVERSITY



RAMANANDA COLLEGE  
BISHNUPUR, BANKURA

Designing multi-epitopes against human  
rhinovirus C- an immunoinformatics  
approach

DISSERTATION IN PARTIAL  
FULFILLMENT OF MSc DEGREE IN  
BOTANY

UID No- 21173013020



NAME- MRITYUNJOY GHOSH

SESSION- 2022-2023

Supervised by- Dr.Saubashya Sur

# BANKURA UNIVERSITY



RAMANANDA COLLEGE

BISHNUPUR, BANKURA

Analysis of the Hypothetical Proteins from *Mycobacterium abscessus* subspecies *bolletii*



DISSERTATION IN PARTIAL FULFILMENT OF M.Sc DEGREE

IN BOTANY

Supervised by:- Dr. Saubashya Sur

UID No- 21173013021

NAME- Pabitra Atta

SESSION - 2022-2023



# Geography

Educational Field Work to VIZAG and its Adjoining areas Organized by the Department of Geography, Ramananda college (19/03/2023-24/03/2023)

Bishnupur, Bankura

TEACHERS DETAILS OF RAMANANDA COLLEGE (GEOGRAPHY DEPARTMENT)

SL. NO.	NAME	ADDRESS	MOB NO.	PHOTO	SIGNATURE
1	Rajesh Kumar Guin	VILL+P.O+P.S – ANANDAPUR DIST – PASCHIM MEDINIPUR PIN - 721122	9475882324		<i>Rajesh K Guin</i>
2	Smita Banarjee	VILL+P.O+P.S – BISHNUPUR DIST- BANKURA PIN - 722122	9474669752		<i>Smita Banarjee</i>
3	Sandipan Ghosh	Vill- Sahapur, P. O- Raipur, Dist- PurbaBardhaman, Pin- 713519	86420 76189		<i>Sandipan Ghosh</i>

*Ghosh*  
28/03/23



Head  
Department of Geography  
Ramananda College  
Bishnupur Bankura

**Educational Field Work to Vizag and its Adjoining areas Organized by the  
Department of Geography, Ramananda college (19/03/2023 – 24/03/2023)  
Bishnupur, Bankura**

**Teachers:**

1. Rajesh Kumar Guin (M 39)
2. Smita Banerjee (F 37)
3. Sandipan Ghosh (M 39)

**List of students**

1. CHAITALI BARAT (F,20)	26. PRITAM SANTRA(M,20)
2.RACHANA KARMAKAR (F, 20)	27. PRIYANKA KISKU (F, 18)
3.AMBIKA LOHAR (F, 21)	28. RAKHI SAHA(F, 19)
4.SUMAN DEY (M,20)	29. RAMENDRA NATH SAREN (M,19)
5.DIPESH SAHA (M, 20)	30. SAYANDIP SINDAL (M,19)
6.ABHINANDAN BANERJEE (M, 20)	31. SELINA KHATUN (F, 20)
7.SOUVIK MANNA (M, 20)	32.SEULI MAJI (F,20)
8.SOUMI KESH (F, 20)	33.SNEHA DEY (F, 19)
9.NEHA NAG (F, 20)	34.SONAM GHATAK (F, 20)
10.RIYA DE (F, 20)	35.SUBHANKAR MAHATA(M,19)
11.PALLAVI MIDDYA (F,21)	36.SUROVI DEY(F,19)
12.CHANDRIKA BETAL (F,20)	
13.REEKA DATTA(F, 20)	37.AnwesaGhosal(F 21)
14.SINDHIYA DAS (F,20)	38.DiptiMaji (F 21)
15. SAINIK BAURI(M, 22)	
16. RANA CHAKRABORTY(M, 20)	
17. RAMESH ROY(M, 20)	
18.ISHIKA HALDAR(F,21)	
19. ANANYA MUKHERJEE (F,19)	
20. ANTARA DUTTA (F, 19)	
21. DEBAPRASAD RAKSHIT (M, 19)	
22. DWIPKUL BALA(M,19)	
23. JASIMUDDIN MONDAL (M,19)	
24. JYOTILAL KISKU(M, 20)	
25. POULAME SAMANTA(F,19)	

Total Number of Persons: 41 (forty-One) (Three teachers and thirty eight Students) and among the students there are 15(fifteen) boys and 23 (Twenty-three) Girls.



*S. Ghosh*  
24/03/23

**Head of the Department  
Department of Geography  
Ramananda College  
Bishunupur, Bankura**

*Head*  
**Department of Geography  
Ramananda College  
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SL.NO	NAME	ROLL NO	ADDRESS	MOB (STUDENT AND GUARDIAN)	PHOTO	SIGNATURE
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2	ANTARA DUTTA	3	C/O: - ADWAITA DUTTA VILL+P.O: - BISHNUPUR P.S: - BISHNUPUR DIST: - BANKURA PIN: - 722122	S: - 7866896053 G: - 9434652720		Antara Dutta Soma Dutta
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5	DWIPKUL BALA	6	C/O: - SUJON BALA VILL: - VITSAYERCHAR P.O: - BANSHICHANDI PUR P.S: - JOYPUR DIST: - BANKURA PIN: - 722154	S: - 9933853683 G: - 9735849476		Dwipkul Bala সুজন বাল
6	JASIMUDDIN MONDAL	7	C/O: - ALAUDDIN MONDAL VILL: - BANGALCHAK P.O: - KABIRCHAK P.S: - INDAS DIST: - BANKURA PIN: - 722206	S: - 9593575825 G: - 7047975825		Jasimuddin Mondal Alauddin Mondal
7	JYOTILAL KISKU	8	C/O: - PATIRAMKISKU VILL: - FULHARI P.O: - PUKHURIA P.S: - SIMLAPAL DIST: - BANKURA PIN: - 722160	S: - 8167759148 G: - 9641569661		Jyotilal Kisku পতিরাম কিস্কু



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9	PRITAM SANTRA	11	C/O: - BIKASH SANTRA VILL: - HETIA P.O: - HETIA P.S: - JOYPUR DIST: - BANKURA PIN: - 722138	S: - 8116403530 G: - 9800564055		Pritam Santra Bikash Santra
10	PRIYANKA KISKU	12	C/O: - KULADIPKISKU VILL: - RAJAGORA P.O: - PUKHURIA P.S: - SIMLAPAL DIST: - BANKURA PIN: - 722160	S: 9832552368 G: 7407871718		Priyanka kisku - Kuladip kisku
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13	SAYANDIP SINDAL	16	C/O: - TARAISINDAL VILL: - BELBACKRA P.O: - BHATARKANALI P.S: - BANKURA DIST: - BANKURA PIN: - 722155	S: - 8509112485 G: - 8637889299		Sayandip Sindal Taraei Sindal
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16	SNEHA DEY	19	C/O: -GAGANNATH DE VILL: -GOBINDAPUR P.O: -NABARIBANPUR P.S: -ONDA DISTRICT: -BANKURA PIN: -722144	S: -8509631580 G: -6296265988		Sneha Dey Gagannath De
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10	SOUVIK MANNA	212	C/O-SAMIR MANNA VILL- PURUSOTTAMPUR P.O-AGARDA P.S-ONDA DIST-BANKURA PIN-722144	S- 8972364158 G-9883906417		Souvik Manna Samir Manna
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14	REEKA DUTTA	1170	C/O-MANTU DUTTA VILL+P.O-BISHNUPUR P.S-BISHNUPUR DIST - BANKURA PIN-722122	S-8250381271 G-9932664431		Reeka Dutta Mantu Dutta
15	DIPESH SAHA	1171	C/O- SANJAY SAHA VILL + P.O- BISHNUPUR P.S- BISHNUPUR DIST- BANKURA PIN-722122	S-6295308023 G-6295311476		Dipesh Saha Sanjay Saha



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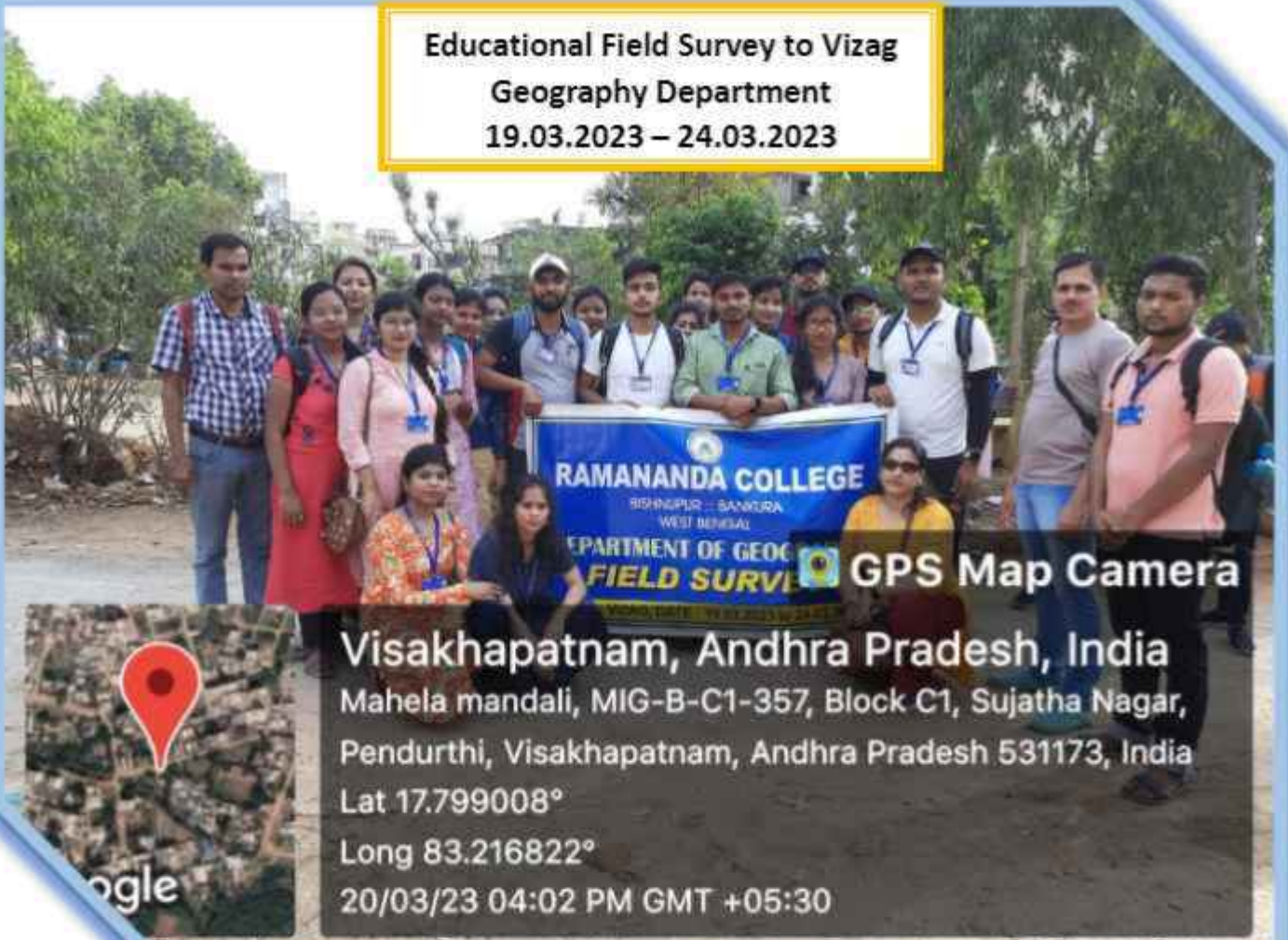
16	SAINIK BAURI	208	C/O : RAMKRISHNA BAURI P.O : DIGHI PS: HIRBANDH DISTRICT: BANKURA PIN : 722121	S: 9800053130 G: 7076444247		Sainik Bauri Ramkrishna Bauri
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18	RAMESH ROY	209	C/O: PARULI ROY VILL-RAGHUNATHPUR P.O-NAYADA P.S-INDPUR DIST-BANKURA PIN-722121	S: 98833885757 G: 8101115386		Ramesh Roy Paruli Roy
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21	DIPTI MAJI (P)	400	C/O-HIRULAI MAJI VILL-BABLA P.O-KUSHMURI P.S-INDAS DIST-BANKURA PIN-722205	S- 8101088932 G-8972955194		Dipti Maji Hirulal Maji




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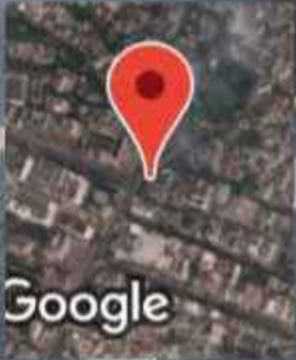


**Educational Field Survey to Vizag**  
**Geography Department**  
**19.03.2023 – 24.03.2023**



**Visakhapatnam, Andhra Pradesh, India**  
Mahela mandali, MIG-B-C1-357, Block C1, Sujatha Nagar,  
Pendurthi, Visakhapatnam, Andhra Pradesh 531173, India  
Lat 17.799008°  
Long 83.216822°  
20/03/23 04:02 PM GMT +05:30

 **GPS Map Camera**



**Visakhapatnam, Andhra Pradesh, India**  
Jagadamba Circle, Opposite O Optex, Near Macca Masjid,  
Jagadamba Junction, Visakhapatnam, Andhra Pradesh 530020, India  
Lat 17.711878°  
Long 83.302552°  
20/03/23 08:48 AM GMT +05:30



HOTEL SURVEY



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

4-203/1 Giriprasadnagar, Block C1, Sujatha Nagar, Pendurthi,  
Visakhapatnam, Andhra Pradesh 530051, India

Lat 17.798412°

Long 83.217825°

20/03/23 04:40 PM GMT +05:30



Google



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

23-10-23\B, Leela Mahal Junction, Suryabagh, Jagadamba  
Junction, Visakhapatnam, Andhra Pradesh 530020, India

Lat 17.713048°

Long 83.299206°

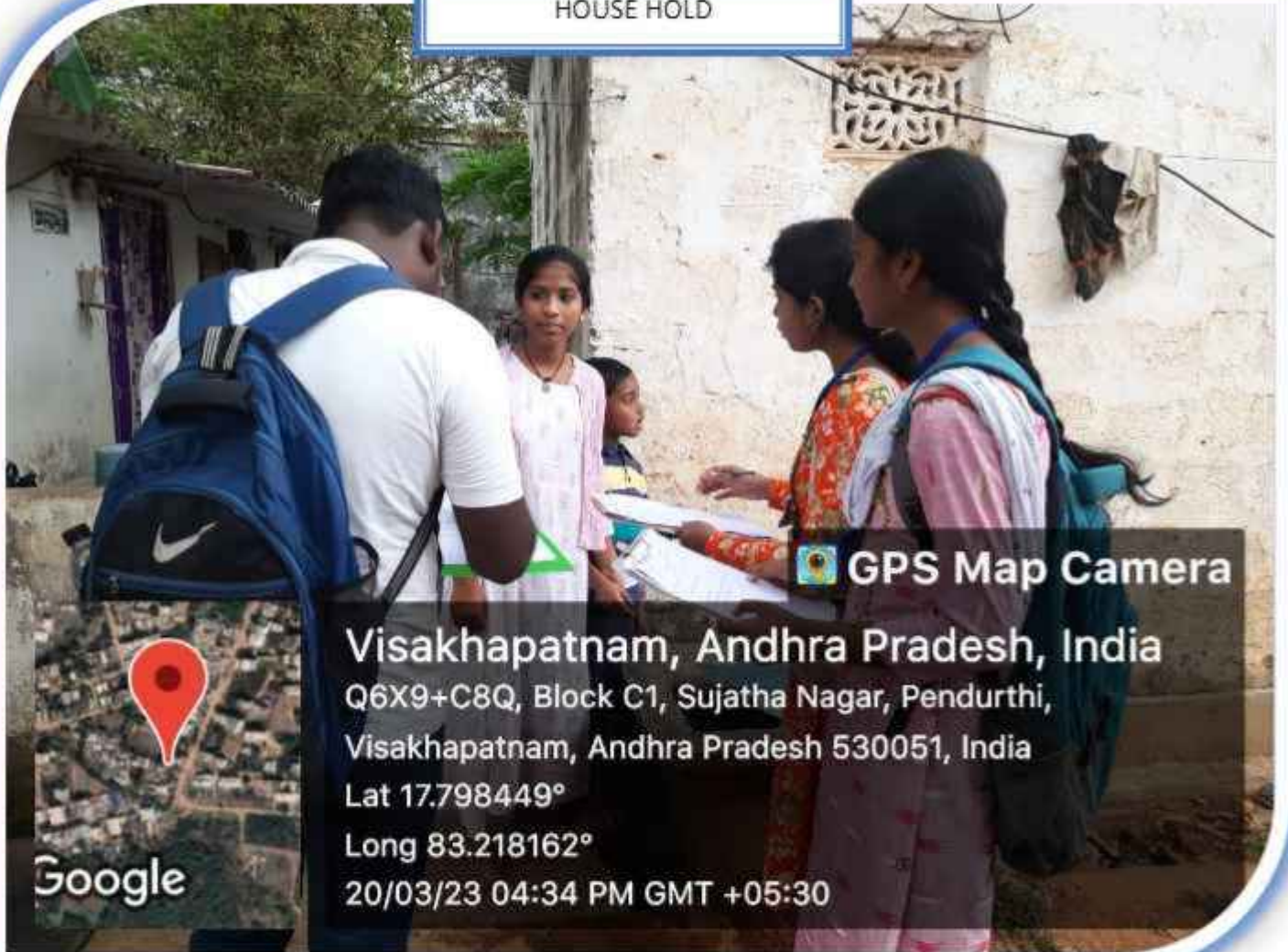
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Google



HOUSE HOLD



 GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

Q6X9+C8Q, Block C1, Sujatha Nagar, Pendurthi,

Visakhapatnam, Andhra Pradesh 530051, India

Lat 17.798449°


Long 83.218162°

20/03/23 04:34 PM GMT +05:30



Google



 GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

Q6X8+GW5, DAV School Rd, Block C1, Sujatha Nagar, Pendurthi,

Visakhapatnam, Andhra Pradesh 530051, India

Lat 17.798685°

Long 83.217286°

20/03/23 04:10 PM GMT +05:30



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MARKET SURVEY



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

P862+XV7, Yellamathota Road, Jagadamba Junction,

Visakhapatnam, Andhra Pradesh 530020, India

Lat 17.712356°

Long 83.302307°

20/03/23 11:39 AM GMT +05:30



Google



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

Near SLG Arcade, Sujatha Nagar, Pendurthi, Visakhapatnam, Andhra Pradesh 531173, India

Lat 17.800107°

Long 83.218769°

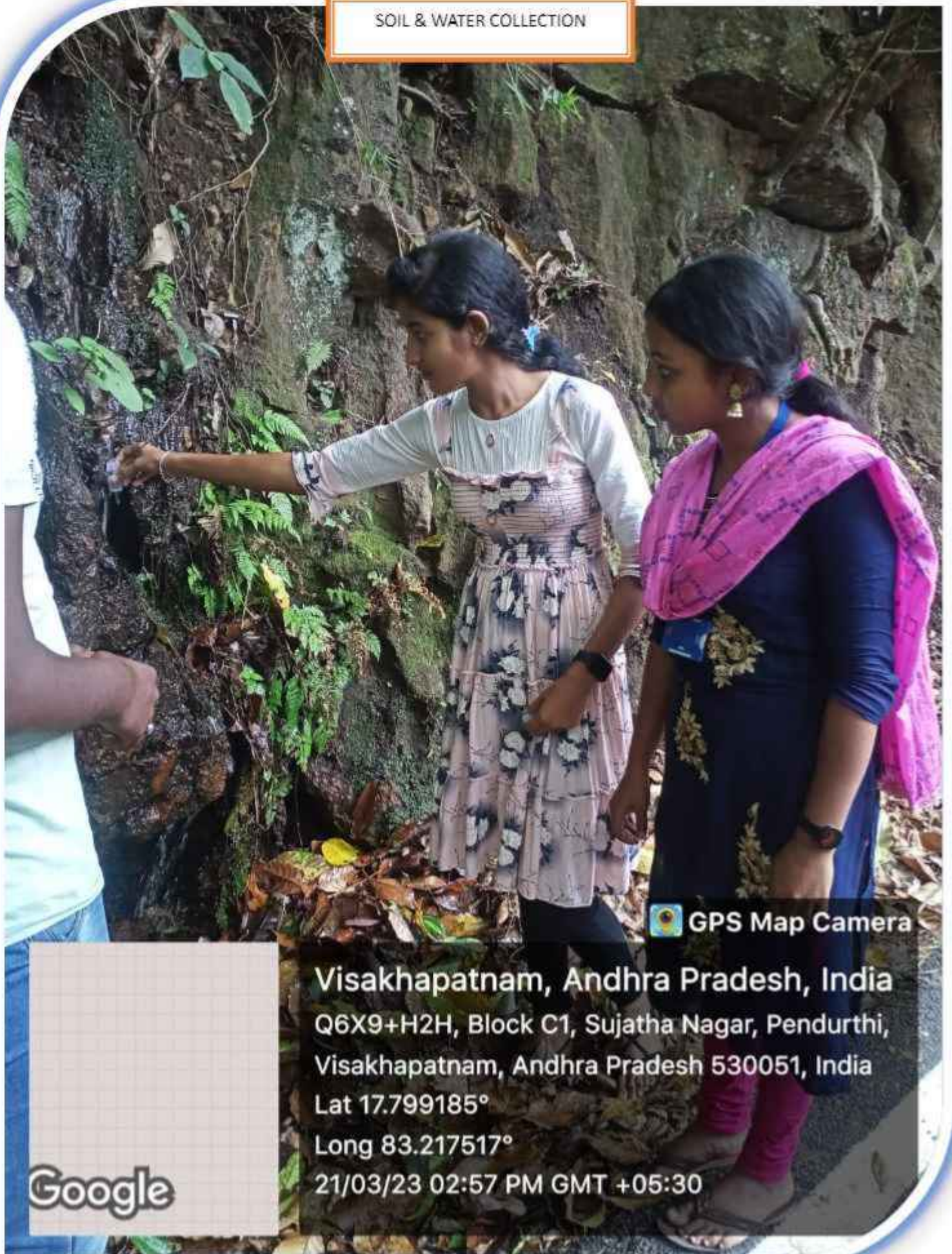
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SOIL & WATER COLLECTION



GPS Map Camera

Visakhapatnam, Andhra Pradesh, India

Q6X9+H2H, Block C1, Sujatha Nagar, Pendurthi,

Visakhapatnam, Andhra Pradesh 530051, India

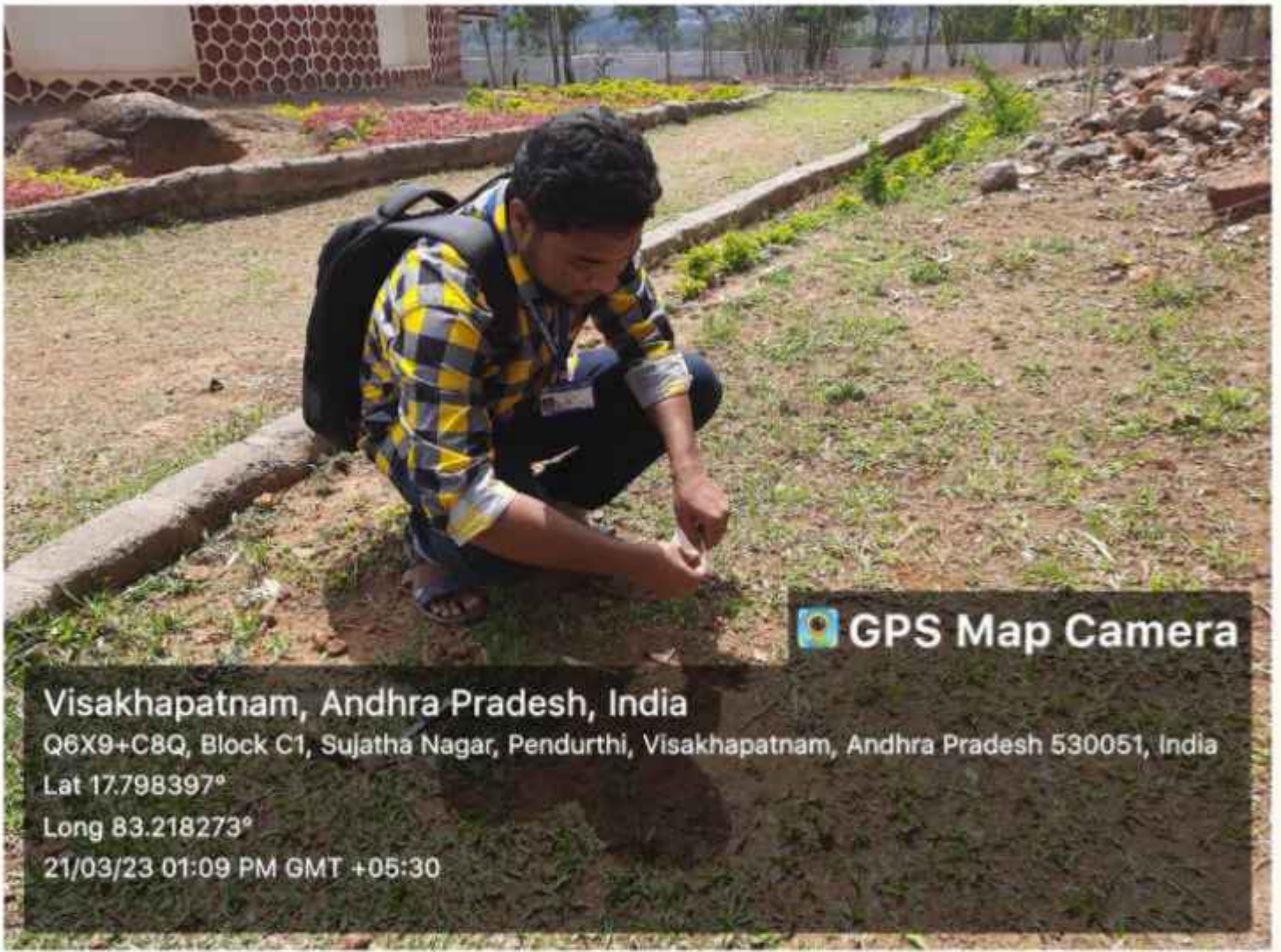
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Long 83.217517°

21/03/23 02:57 PM GMT +05:30

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 **GPS Map Camera**

**Visakhapatnam, Andhra Pradesh, India**

Q6X9+C8Q, Block C1, Sujatha Nagar, Pendurthi, Visakhapatnam, Andhra Pradesh 530051, India

Lat 17.798397°

Long 83.218273°

21/03/23 01:09 PM GMT +05:30



 **GPS Map Camera**

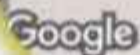
**Visakhapatnam, Andhra Pradesh, India**

Q6X9+H2H, Block C1, Sujatha Nagar, Pendurthi,  
Visakhapatnam, Andhra Pradesh 530051, India

Lat 17.799185°

Long 83.217517°

21/03/23 02:59 PM GMT +05:30





# FIELD SURVEY REPORT

**ANDRA PRADESH**

***SUJATHA NAGAR***

9	TABLE FOR FLOOR CONDITION	39
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**LOCATION MAP FOR SUJATHA NAGAR, PENDURTHI, VISAKHAPATNAM, ANDHRA PRADESH**





## INTRODUCTION

Vishakhapatnam is a district of Andharapradesh, situated between hills and sea beside the mountain range of the Eastern Ghats. The Vishakhapatnam port is one of the most important marine gateways of Andhra Pradesh and south eastern state of India. Vizag is the city of Vishakhapatnam.

There is occurred various cyclone in Vishakhapatnam district because of it situation on coastal area and also air pollution, open drainage, plastic and bad road condition. Being high population city Vishakhapatnam there also has problems of ground water storage. Dangerous tsunami and flood are hit coastal area.

## LOCATION

The district of Vishakhapatnam South Eastern in Andraparadesh, India and it situated at  $17^{\circ}42'15''$  north and  $83^{\circ}17'52''$  East. It is a coastal region. It has an average elevation in 45m. Total area –  $972\text{km}^2$  (375sq mi)

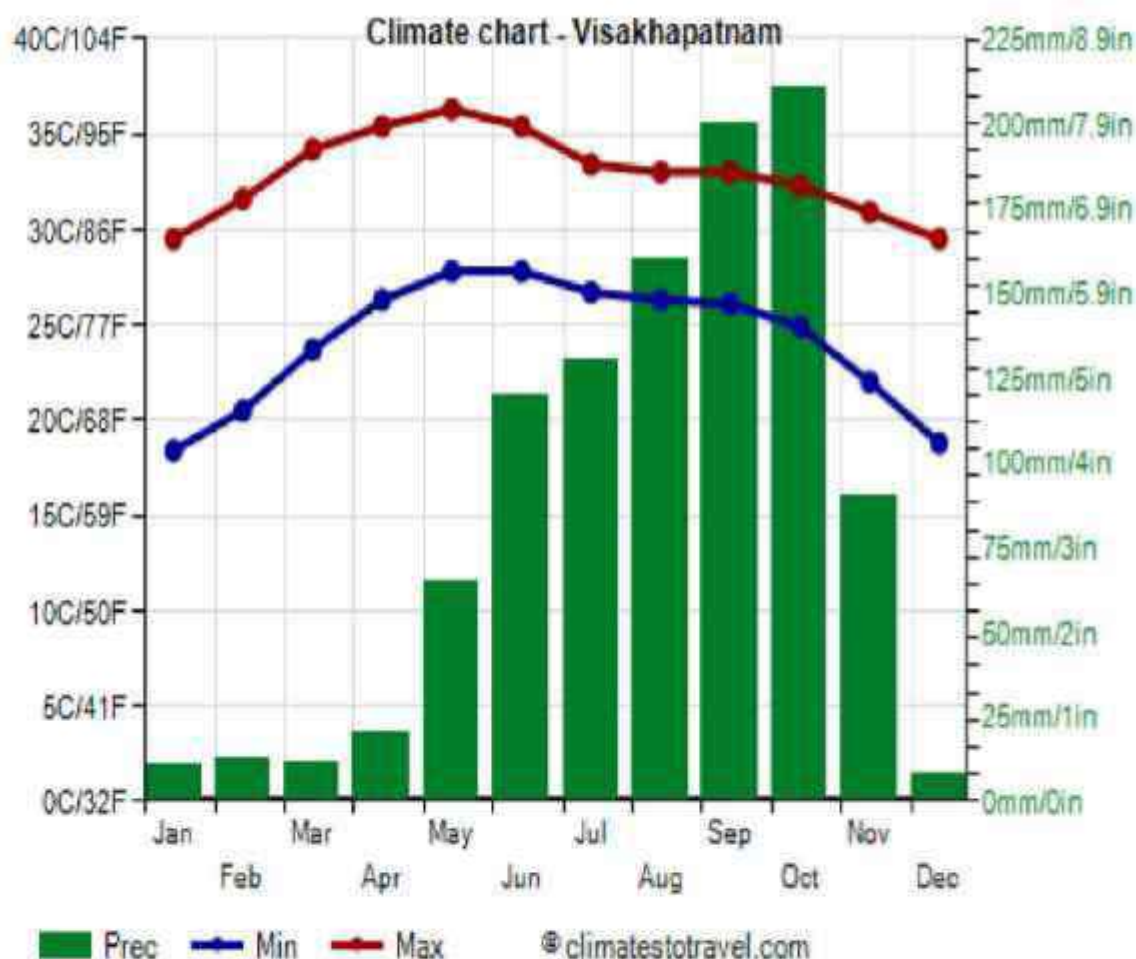


**Fig. 3**

## CLIMATE

The climate of Visakhapatnam (also known as Vizag) is tropical, with a rainy season from June to November, due to the monsoon, and a dry season from December to May. In recent decades, the monsoon has had its onset on average in 11 June. By mid-October, the north-east monsoon begins to blow, which for a few weeks still brings rain, though less than in south-east India.

From late March to early June, before the monsoon, it is very hot, and the temperature can exceed 40 °c (104 °f). In June 1995, it reached 45.4 °c (113.7 °f), while in May 2002 it reached 45 °c (113 °f). The figure showers can occur from time to time, especially in May.



**Fig. 4**



## TOPOGRAPHY

Vizag appears like a basin as it is bounded by Kailasa, yarada and narava hill range on north, south and west. And also in east situated Bay of Bengal. It has an undulating topography with a height of 4 m to 50 m above mean sea level.

## DRAINAGE BASIN SYSTEM

Drainage of the river basin, Visakhapatnam district, Andhra Pradesh, India, there is no major river without varaha river in Visakhapatnam district. The varaha river originates in part of Eastern Ghats mountain rainge (Kondasanta hill) at attitude of about 1165m to flows 62km south east wards to join the Bay of Bengal. The drainage is mostly dendritic and is ephemeral in nature

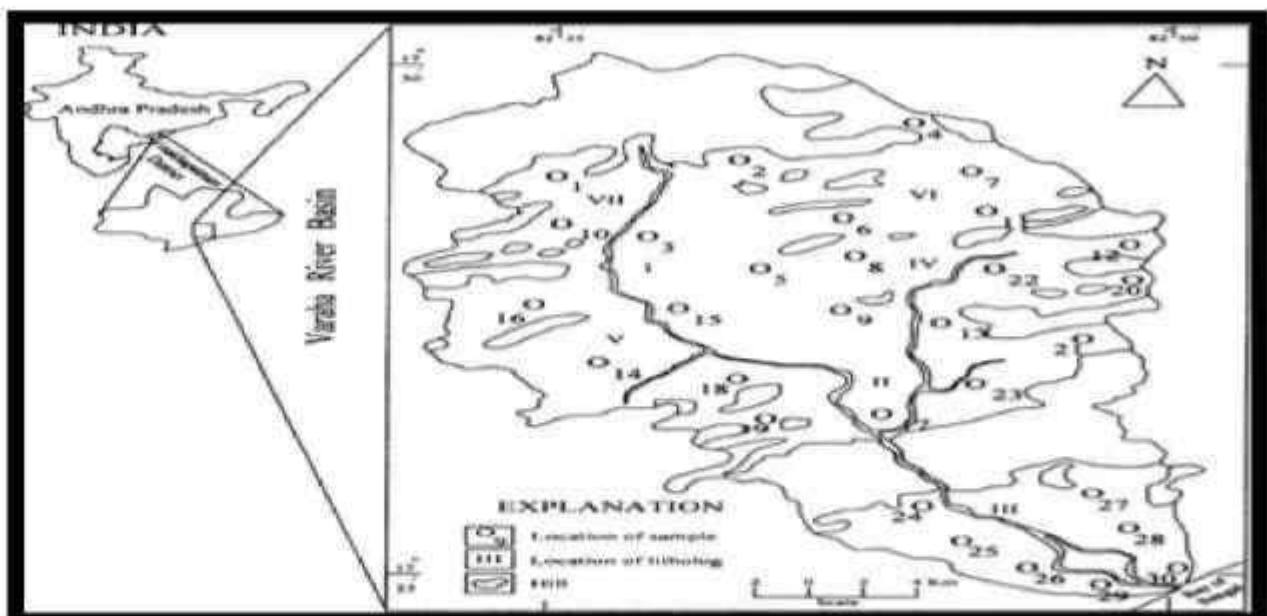


Fig: 5





## WILD LIFE RESERVERS

Kambalakonda wildlife sanctuary is a vast forest reserve located near Vishakhapatnam, Andhra Pradesh, covering an area of 17000 acres, with lush green foliage covering the terrain. The sanctuary is great for trekking and hiking while also making it sustainable for wildlife at the same time.



Fig: 7

# FIELD SURVEY REPORT

**ANDRA PRADESH**

***SUJATHA NAGAR***



## TOURISM

Visakhapatnam, also known as Vizag, attracts the highest concentration of tourists in the state. The city is not just popular amongst the people of Andhra Pradesh, but also the rest of India. The city's Buddhist heritage can be traced back to the reign of Maurya emperor Asoka. It also finds a place in the chapters of modern Indian history since it is the headquarters of the Eastern Naval Command of the Indian Navy. Owing to its strategic position, it saw action during the Indo-Pak war in 1971. The city's 25-km-long coast-hugging Beach Road is lined with museums, cafes, historical sites as well as beaches. There are some beaches in the city as Ramakrishna beach, Rushikonda beach, which are very attractive to tourists. Also visit Rushikonda beach and Vizag city through Kailashgiri temple and its ropeway which creates a different experience in Visakhapatnam tourism.



**Fig: 9 & 10**



**Fig: 11 & 12**

## **GENERAL INTRODUCTION OF PENDUTHI BLOCK**

**INTRODUCTION:-** Pendurthi is neighbourhood in the city of Vizag . India the neighbourhood is considered as the major residential and commercial area in the city. It is located within the jurisdiction of the greater Visakhapatnam municipal corporation, which is responsible for the civic amenities in pendurthi.

**LOCATION:-** It is located on the west fringe of Vizag city. According to geographically, it is situated 17.8333<sup>o</sup>n to 83.2000<sup>o</sup>e

**CLIMATE:** Pendurthi mandalem has a tropical wet and dry climate. The main temperatures rains between 24.7-30.7 °c( 76-78°F), with the maximum in the month of May and the minimum in January ;the minimum temperatures range between 17-27°c (63-81°F).

**SOIL:** - Pendurthi mandalem's are six types of soil noticed there 1.red soil 2.black soil 3.deltaic alluvial soils 4.coastal alluvial soils 5.laterite soil 6.skeletal soil.

**DEMOGRAPHICS:** - Total population of pendurthi mandalem is 106,513 living in 24,543 houses. Total males 53,800 and females are 52,713 total 26998 person lives in town and 79515 live in village (according to survey from 2011 census).

**AGRICULTURE:-** The gross irrigated area (38.13lakh hectares) is 52.33% of gross area sown (72.87 lakh hectares ) in the state .The gross area sown in the year 2019-20is 72.87 lakh hectares from 72.97 lakh hectares in the previous year 2018-19 shoeing a decrease of 0.14% .

**SEX RATIO:** - As per census 2011 out of total population 77.9% lives in area while 22.1% people lives in rural area. also sex ratio of urban area (pendurthi mandalem ) 992 while that in rural area is 67.9% also sex ratio of urban area in pendurthi mandalem is 992while that rural census is 1015. Thus as per the census 2011 the child sex ratio of pendurthi mandalem is 950 which less than average sex ratio (997) of pendurthi mandalem.

**LITERACY RATE:-** The total population of pendurthi block 71.65% population is literate,out of which 77.53% males and 65.74% females are literate.

**GENAREAL  
INFORMATION  
ABOUT  
SAMPLE VILLAGE  
(SUJATANAGAR)**



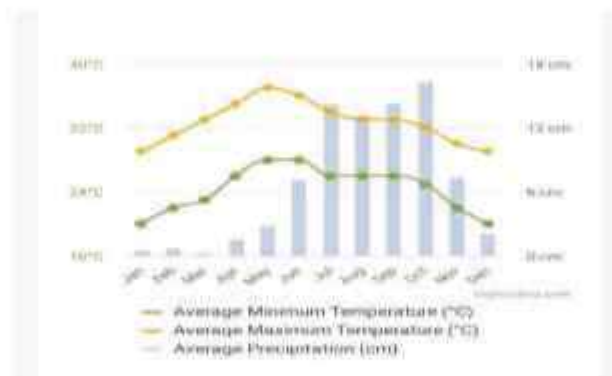
**INTRODUCTION:** - Sujatanagar is neighbourhood situated in the Visakhapatnam city, India, which falls under the local administrative of greater Visakhapatnam Municipal Corporation. It is about 2.3 km from the pendurthi block .Sujatanagar is well residential colony and it's well connected with NAD X Road.

**LOCATION:** - It is located in vizag city which situated  $17.799927^{\circ}$  N to  $83.214641^{\circ}$  E. it is near the sea which is Bay of Bengal. It is located under Greater Visakhapatnam municipality, ward no is 70.



**Fig : 13**

**CLIMATE:** - Climate of sujatanagar is equivalent i.e is high temperature through the year up to  $33^{\circ}$  C and night temperature goes down up to  $23^{\circ}$  C . In this area land and sea wind are flowed through the whole day . it is affected by various cyclone because of costal area .



**Fig: 14**

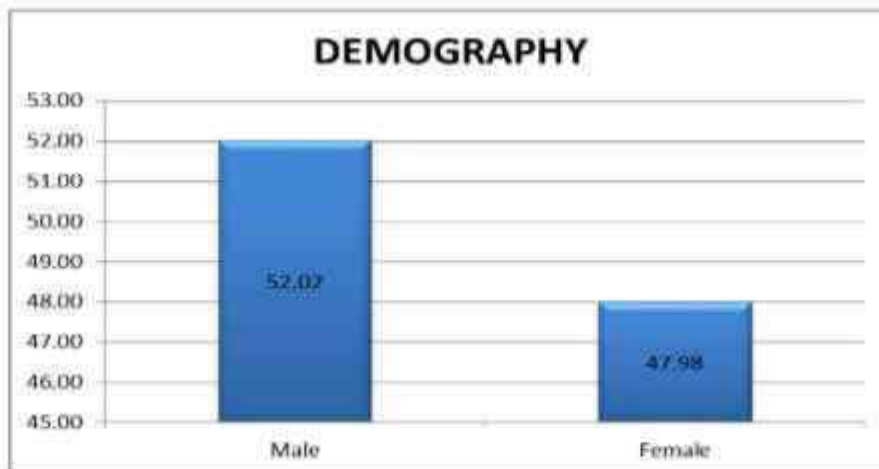
**SOIL:** - We collected various soil samples from Visakhapatnam district like pendurthi, Sujatanagar, beside the road, garden, Bora cave. According to our soil sample collection the soil is mostly alkaline. The value of average PH is 8.0 and organic carbon value is 0.5-7.5. It is alkaline because of location of sea.

**DEMOGRAPHY:** - In sujatanagar there is 116 male populations and 107 female population. Total population is 223. So the number of males per female is high here due to which sujatanagar is dominated by patriarchal society. The ratio of male and female population is 52:47.

### DEMOGRAPHY

Table no:- 1

Person	No of person	Percentage
Male	116	52.02
Female	107	47.98
Total	223	



**Fig :15**

**SOURCE:** Personal data from sample village

**CASTE STRUCTURE:** - We can see from this figure that the number of Bca race (76.29%) is highest and St race, (1.93%) is the lowest in this area as a result of which we see more upper class people living here.

### CASTE STRUCTURE

Table no:- 2

	CASTE	NO. OF POPULATION	%
	BCA	26	
	BCB	5	
OBC	BCC	0	76.92
	BCD	9	
	BCE	0	
SC		11	21.15
ST		1	1.93

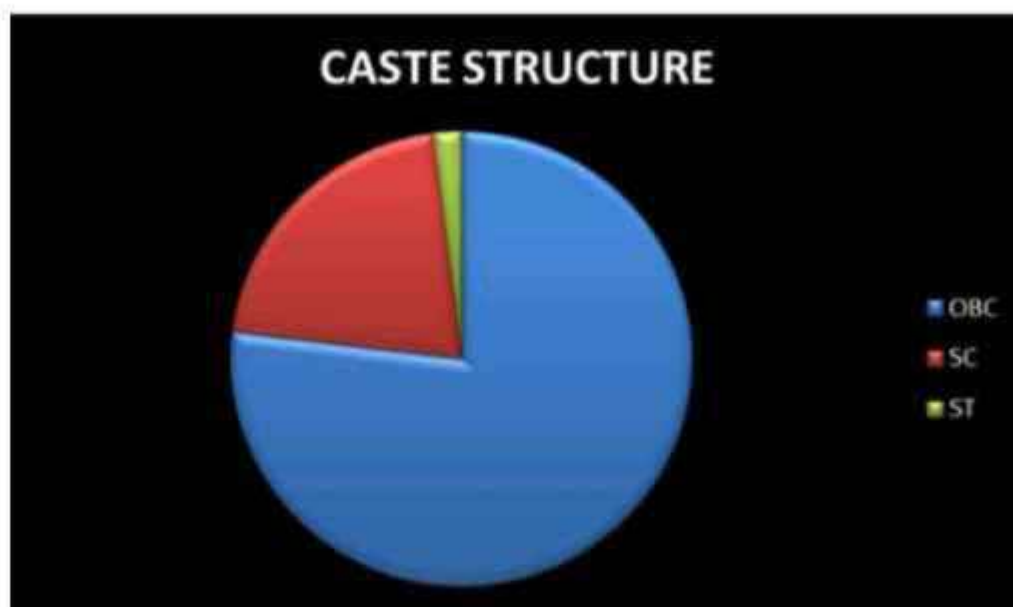


Fig : 16

SOURCE: Personal data from sample village

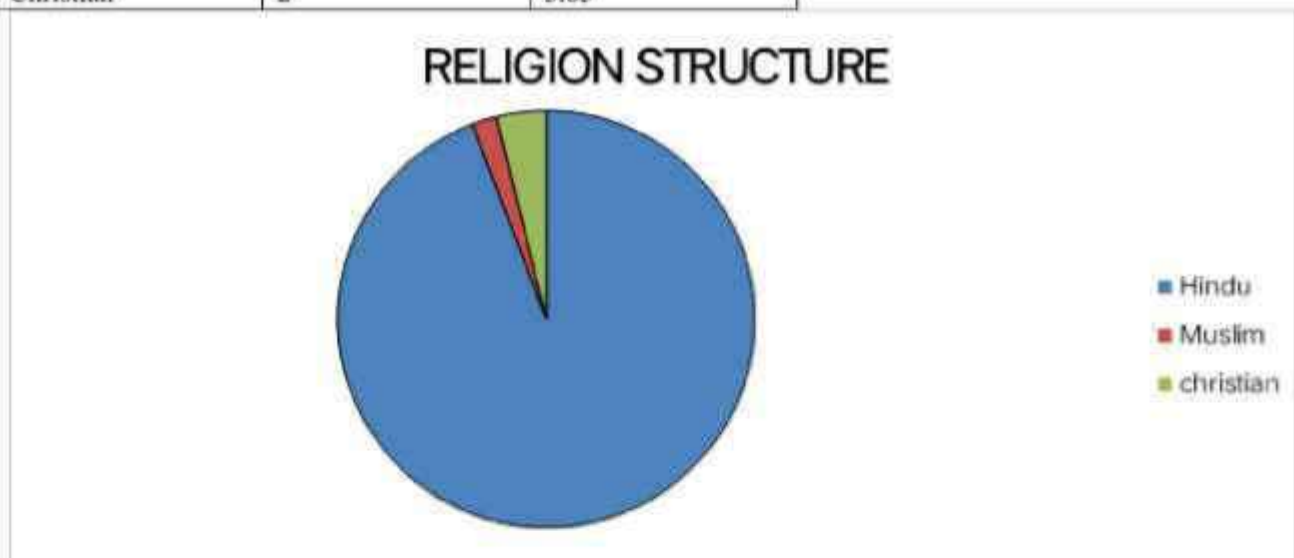


**RELIGION STRUCTURE:** - Hindu community (94.23%) is the largest community and Christian (3.85%) is the second largest community. Also on the minority side we find the Muslim community living (1.92%).

### RELIGION STRUCTURE

**Table no:-3**

Religion	No.of population	%
Hindu	49	94.23
Muslim	1	1.92
Christian	2	3.85



**Fig no :- 17**

**SOURCE:-** Personal data from sample village .

# **SOCIO ECONOMIC SURVEY AT VIZAG**

Ishika Haldar, Rajesh Kumar Guin<sup>1</sup>

<sup>1</sup>*Department of Geography, Ramananda College, Bankura University, INDIA*

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## **Abstract**

In the academic field, abstracts are mainly used to easily make preliminary comparisons between complex studies. In many cases, the abstract of the subject is reviewed in the selection of the proposed presentation in various workshops, conference or seminars. In Many cases copies of research papers have to be purchased, so in that case the buyer needs to study the abstract before purchasing. So that you can get an idea about the content.

1. When an article is submitted for publication in a journal ( mainly online - journals), the abstract has to be written.
2. When applying for a research grant, submit an abstract have to do .
3. When a proposal is given to write a book, one abstract writing becomes necessary.
4. When any PhD dissertation or M.A/ MSc when the thesis work is completed ,it's abstract has to be written.

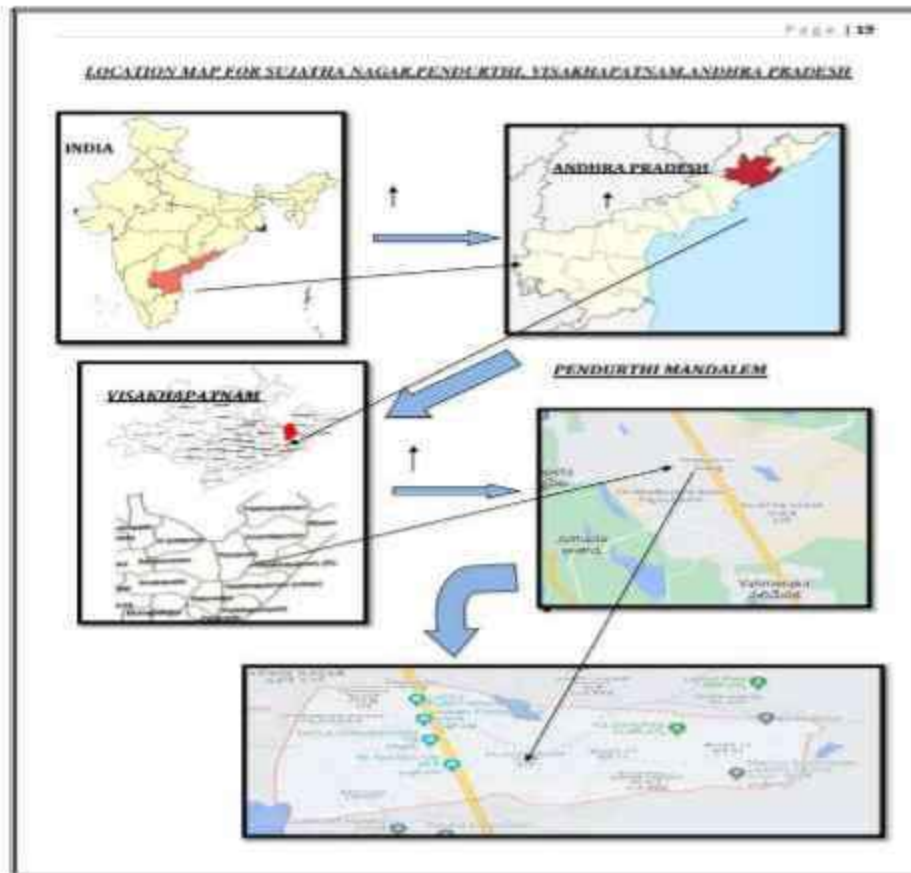
## **Introduction**

Visakhapatnam, often referred to as Vizag, is the largest city in Andhra Pradesh and plays a significant role in the state's economy. The city is known for its strategic location, natural harbor, and growing industrial sector. This case study focuses on the socio-economic conditions of Visakhapatnam, shedding light on the key indicators that reflect the overall well-being and development of its residents.

## **SELECTION OF STUDY AREA:**

The student of b.sc final year, department of geography organized a field survey to the physical Demography and socio-economic characteristics of Vizag city in the Vishakhapatnam district, Andhra Pradesh. The mountain of Visakhapatnam, weather condition and ocean and of the region also one cause Of attraction, we can get a proper feature of physical in the area.

## Location map



### OBJECTIVES OF SOCIO ECONOMIC SURVEY

To know about the condition and relationship of 1. Income and employment levels. 2. Education and literacy rates. 3. Housing conditions and infrastructure. 4. Health status and access to healthcare. 5. Poverty levels and effectiveness of social welfare programs.

### II)Material And Methods

**Study Design:** Socio economic survey

**Study Location:** Sujatanagar, Vizag , Visakhapatnam

**Study Duration:** 1 April to 30 may

**Sample size:** 52 houses

**Methods:** pre field , field , post field

For the field study methodology is –

Pre-Field work-

We prepare our question for household survey, market survey, hostel survey and tourist

Survey. We collected our survey are map of sujatha nagar from Pendurthi block, blo office,



Vishakhapatnam. Also we collect secondary data from internet and various books.

Field work –

During field study 19<sup>th</sup> march to 24<sup>th</sup> march in 2023, different type of survey work like

Physical, socio-economic has been conducted.

From the house hold survey we collected various information regarding caste

Consumption, religion, education structure, occupation structure etc.

We also surveyed market and road, from this market survey we collected various

Information like source of income selling material etc.

Post field work –

After for departure various data collection map, collection diagrammatic. Use efficiency

Done each student.

### ACKNOWLEDGEMENT

WHILE PREPARE MY FIELD REPORT AND COMPILING THE SAME , I WOULD LIKE TO EXPRESS MY GRATITUDE FOR HELP, GUIDENCE , CO-OPERATION EXTENDED TO ME WHICH HELP ME IN MY FIELD PREPARATION REPORT .

I AM GREATLY INDEBTED TO PROFESSOR RAJESH GUIN, SMITA BENARJEE AND SANDIPAN GHOSH FOR THIS HOLD HEARTED ASSISTANCE AND SUPERVISION WITHOUT I COULD NOT HAVE COMPLETED MY PROJECT WORK . I ALSO TAKE THE PHASE OF ACKNOWLEDGING THE HELP OF THE BLOCK LEVEL AND LAND REFORMER OFFICE (BLRO) PENDIRTHI BLOCK , VISAKHAPATNAM

I AM CONVEYING SEPCIAL THANKS TO THE LOCAL PEOPLE OF SUJATANAGAR FOR THEIR CO-OPERATION IN SUPPLYING THE RELEVANT DATA FOR THE WORK.

I AM ALSO GREATFUL TO MY PARENTS AND OTHER FAMILY MEMBER FOR THEIR HELP RIGHT TO THE PERPARATION OF THE WORK. I AM ALSO THANKS TO MY FRIENDS FOR THEIR CO-OPERATION DURING OUR VISIT AND DISCUSSION LOCAL HOME.

### SOURCE OF DATA:

**PRIMARY DATA:** WE COLLECTED OUR PRIMARU DATA FROM HOUSE HOLD SURVEY , market survey , hotel survey and dumpy prismatic survey at Vizag , Visakhapatnam

**SECONDARY DATA:** WE COLLECTED OUR SECONDARY DATA FORM THE DIFFERENCE SOURCE THAT ARE. 1, internet 2,books 3, various case study 4, news paper

### **Population:**

The population of Visakhapatnam has witnessed steady growth over the years, driven by factors such as urbanization, migration, and industrial development. The study examines the demographic composition, population density, and growth rate to understand the city's population dynamics.

### **Education:**

Education is a crucial factor in determining socio-economic progress. The case study investigates the educational infrastructure, literacy rates, enrollment levels, and quality of education in Visakhapatnam. It also analyzes the challenges and gaps that hinder access to education and the impact on the socio-economic conditions of the city.

### **Employment and Income Levels:**

The availability of employment opportunities and income levels are essential indicators of socio-economic conditions. This section examines the employment patterns, sectors driving economic growth, formal and informal employment, and income distribution in Visakhapatnam. It also addresses the challenges faced by marginalized communities and the impact of economic disparities on the overall well-being of the city.

### **Healthcare:**

Access to quality healthcare services is a vital aspect of socio-economic development. This section examines healthcare infrastructure, availability of medical facilities, healthcare expenditure, and the overall health status of the population in Visakhapatnam. It also highlights the gaps in healthcare accessibility and the impact on the socio-economic well-being of the city's residents.

### **Infrastructure and Urban Development:**

The availability of robust infrastructure is crucial for economic growth and improving living standards. This section analyzes the state of physical infrastructure, transportation, housing, water supply, sanitation, and waste management in Visakhapatnam. It also explores ongoing urban development projects and their impact on the socio-economic conditions of the city.

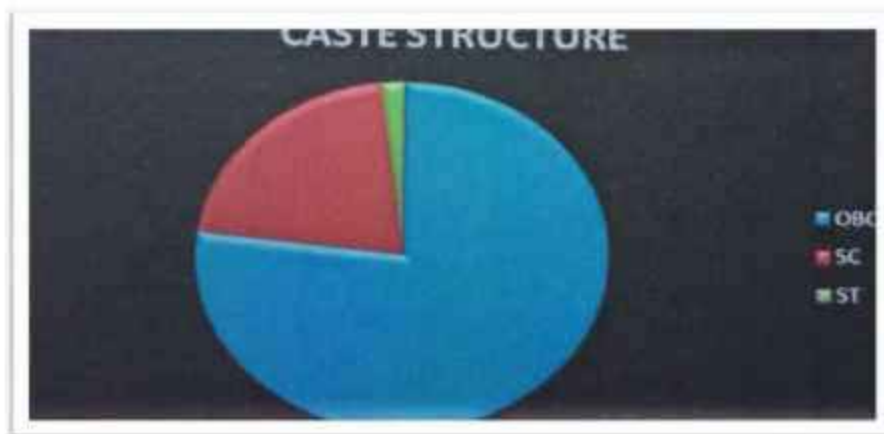
### III)Result:

#### Caste structure:

We can see from this figure that the number of bca race (76.29%) is highest and St race ( 1.93%) is the lowest in this area as a result of which we see more upper class people living here

	Caste	No of population	%
	BCA	26	
	BCB	5	
OBC	BCC	0	76.92
	BCD	9	
	BCE	0	
SC		11	21.15
ST		1	1.93

Table no 1



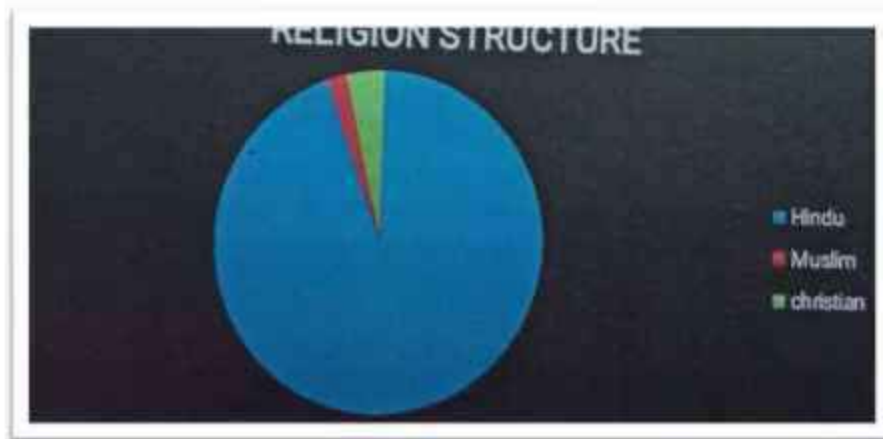


### Religion Structure:

Hindu community ( 94.23%) is the largest community and Christian (3.85%) is the second largest community .Also on the minority side we find the Muslim community living ( 1.92%).

RELIGION	NO OF POPULATION	%
HINDU	49	94.23
MUSLIM	1	1.92
CHRISTIAN	2	3.85

Table no 2



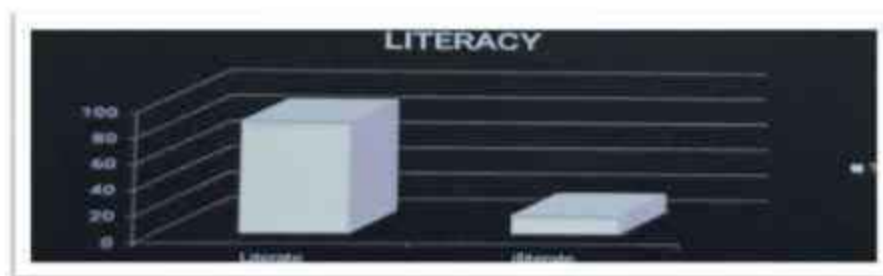
### Literary Rate:

According to Cencus 2011, Sujata nagar Village is lower literacy rate compared to Andhra Pradesh. But in the survey area we find that Literacy rate is quite good around 85% and the number of illiterate is quite low 15%.

As a result we can say that the number of education people in this area is quite high.

LITERATE	%	LITERATE	%
45	86.54	7	13.46

Table no 3



### MONTHLY INCOME STRUCTURE:

The survey on monthly income shows that 9.69% of people earn less than 10000 rupees who are mainly taxi drivers who are mainly associated with labours or taxi drivers whose income depends entirely on tourism. 25%% people monthly earn between 10000-30000 rupees, earn from secondary sector. 57.69% people earn 30000-60000 rupees who mainly earn from government service. 7.69% people earn from self employed i.e. business. So the number of upper income class people is seen more.

INCOME	NO. OF POPULATION	%
<10000	3	5.77
10000-29000	33	63.46
30000-60000	13	25
>60000	3	5.77

Table no 4



### OCCUPATION STRUCTURE :

According to our survey data from the survey area, now most of the people (65.38%) are associated with the service sector i.e. non-agriculture and about 25% of the people are associated with the secondary sector i.e. self employed related work and the least about 9.62% of the people are associated with the primary sector i.e. agriculture. So this means that almost 90% of the people here are involved in service related work and self employed, business work.

PROFESSION	NO. OF POPULATION	%
PRIMARY SECTOR	5	9.62
SECONDARY SECTOR	13	25
SERVICE SECTOR	34	65.38

Table no 5

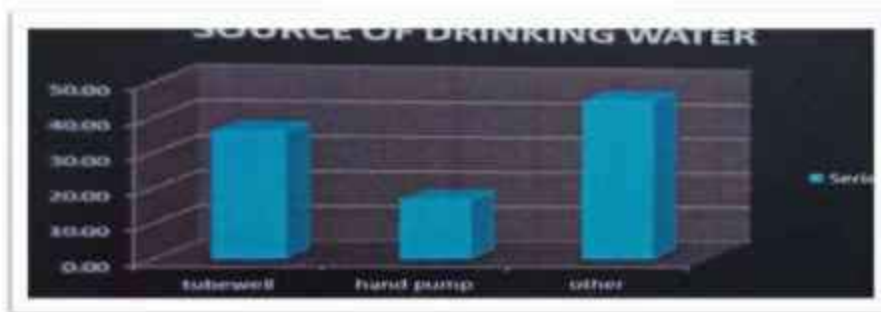


### DRINKING WATER:

Majority of people (46.15%) in our survey area get their drinking water supply through government water scheme. Also 36.54% people get drinking water supply from tube-well and 17.31% people get drinking water supply through hand pump.

SOURCE TYPE	NO. OF POPULATION	%	TOTAL
TUBE WELL	79	36.54	52
HAND PUMP	9	17.31	52
OTHER	24	46.15	52

Table no 6





## IV) discussion

### 1. PROBLEMS AND SUGGESTIOS:

The main problem of the locality that, there is no hospital near this area. In this area, there is a health centre but no proper hospital. If the local people became ill then they face a big problem for treatment. So we humbly request to the Government to build for the local people. Some also problem that there is no Agriculture production was seen in this area.

### 2. INTERPRETATION

The Socio-Economic Survey conducted in Vizag City provides valuable insights into the social and economic landscape of the city in a given period. In this case, the survey focuses on Vizag City in an unspecified year.

The survey likely covers various aspects such as population demographics, income distribution, employment patterns, education levels, and access to basic amenities. By analyzing this data, we can gain a better understanding of the city's socio-economic conditions and identify areas of improvement.

## V) CONCLUSION

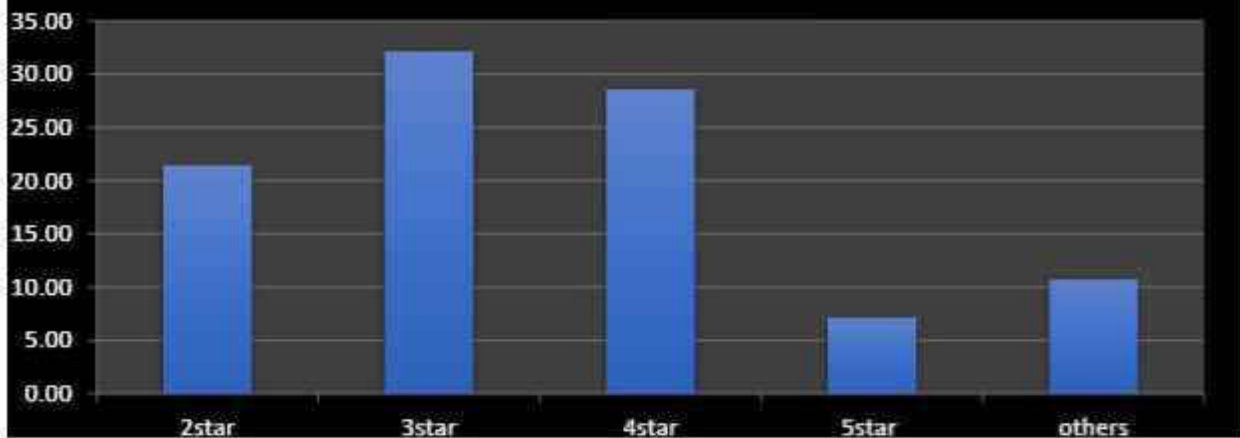
Over all the people of this area very laborious. Though they are belonging from middle class, the standard of living is high. They are very hard worker In this area we noticed that the whole local people's behaviour are very good and strong bonding relationship with each other. Overall all the peoples are very lovable and faithful.

## References

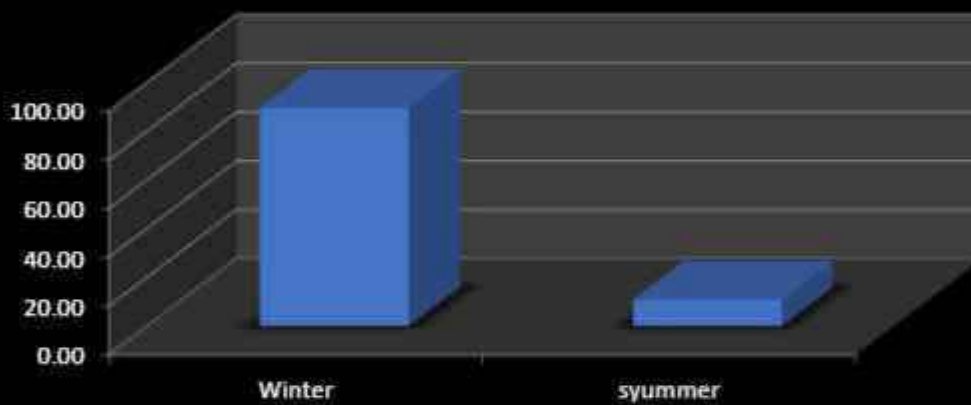
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## Hotel Survey table Report

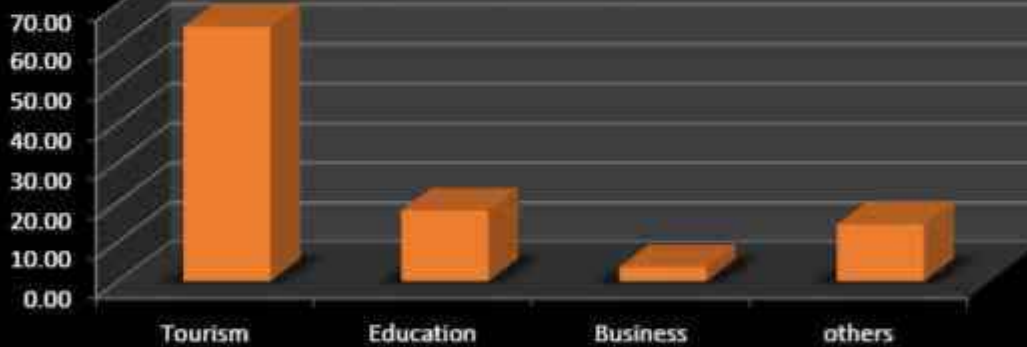
### HOTEL QUALITY



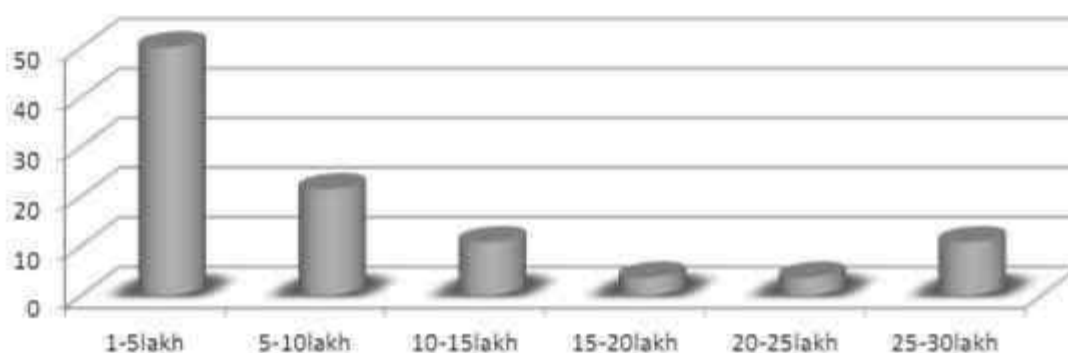
### SEASON



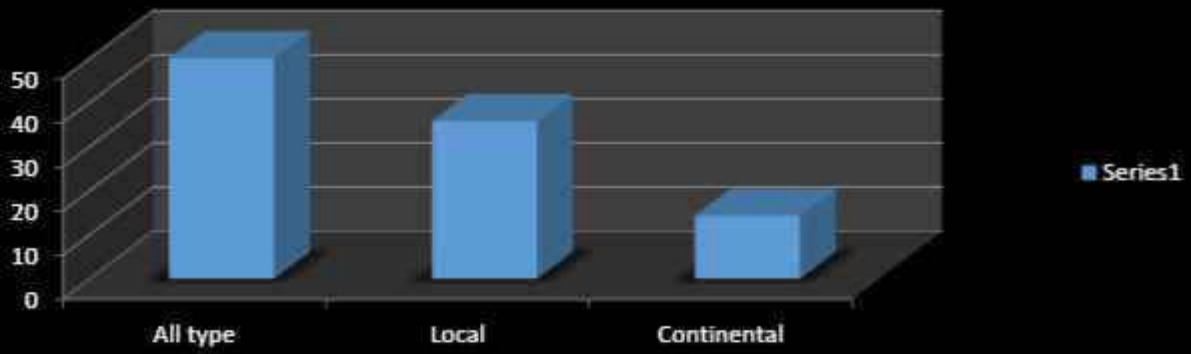
### TRAVEL PORPUSE



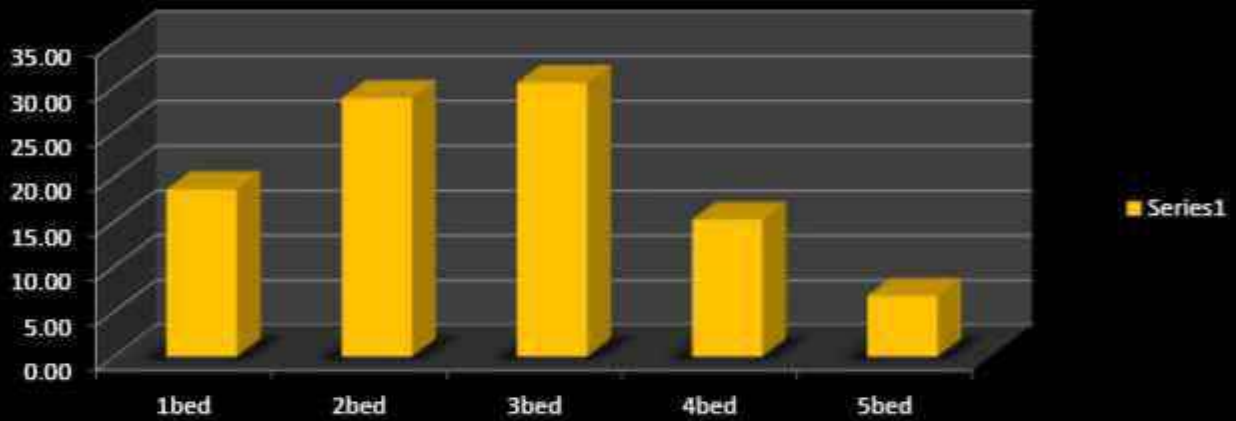
### AVG. MONTHLY INCOME



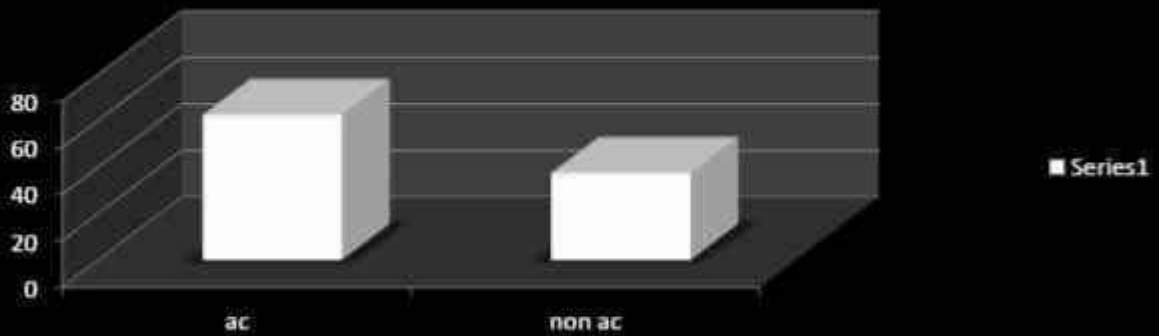
## FOOD AVALITY



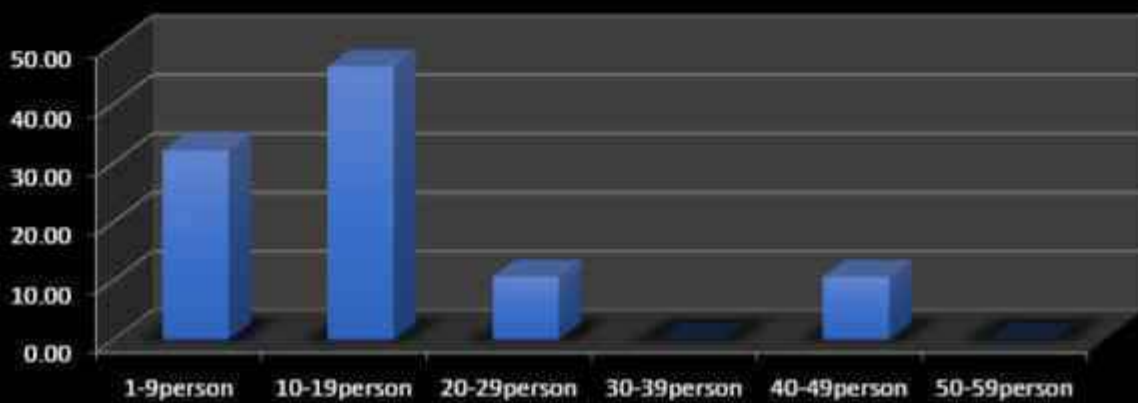
## ROOM TYPE



## ROOM TYPE

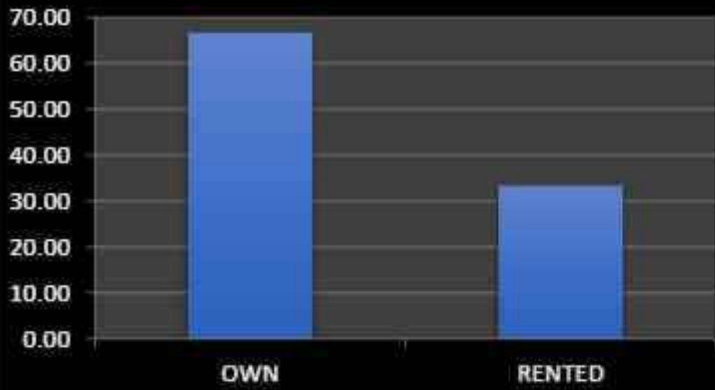


## NO, OF STAFF

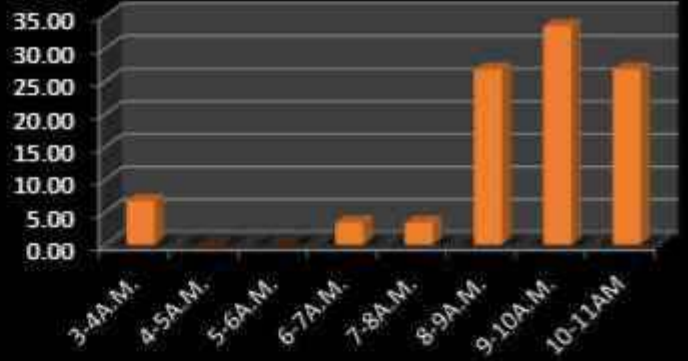




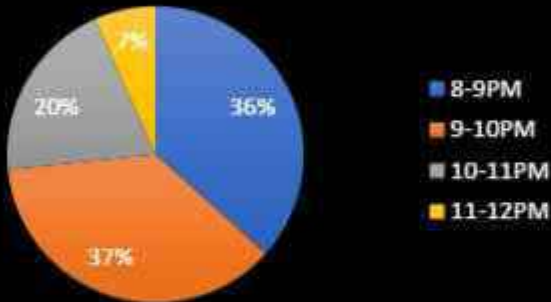
### STORE TYPE



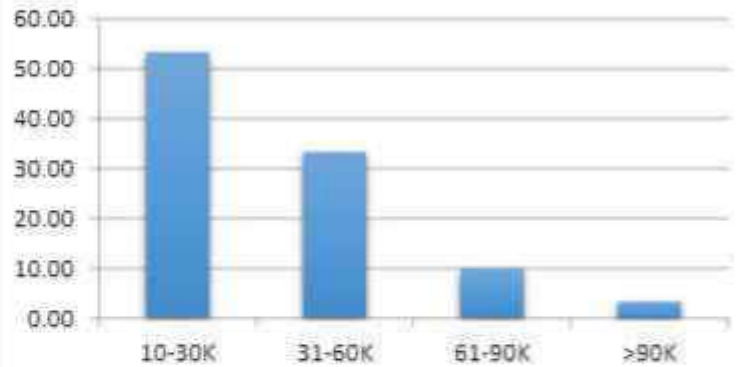
### AVG. OPENING TIME



### AVG. CLOSING TIME



### AVG. MONTHLY INCOME



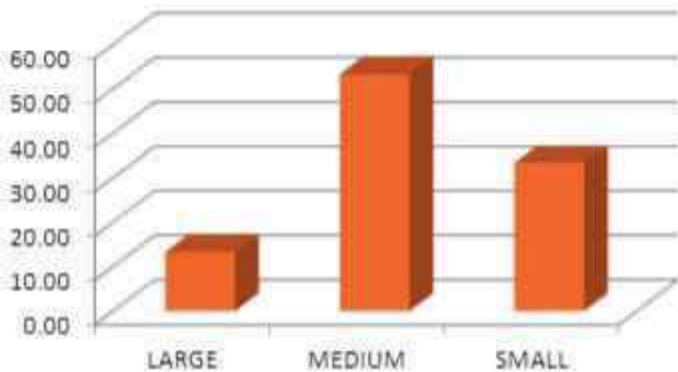
### NO. OF LABOUR



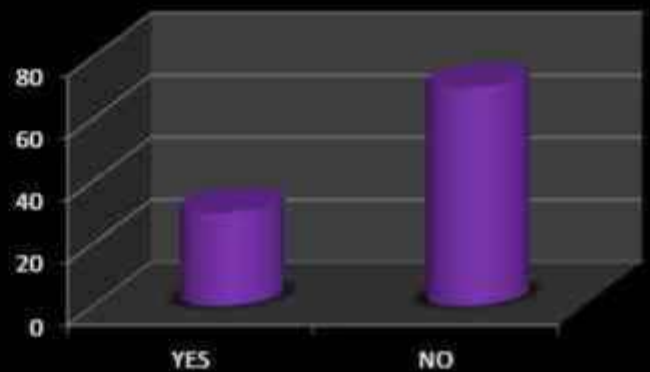
### NO. OF LABOUR



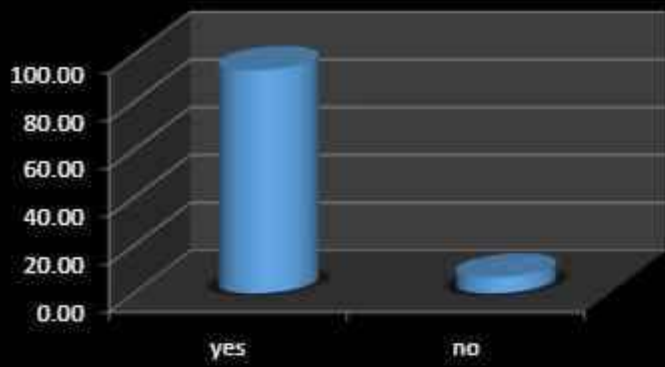
### SHOP SIZE



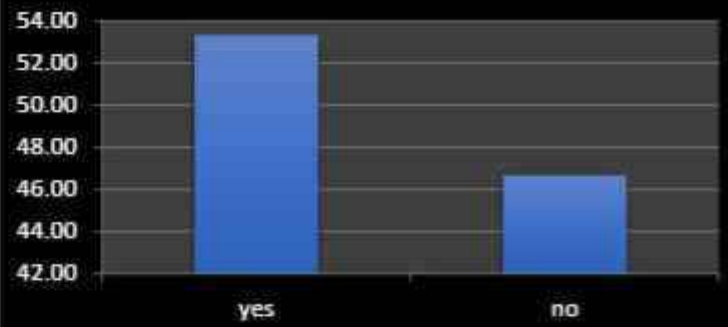
### LOAN



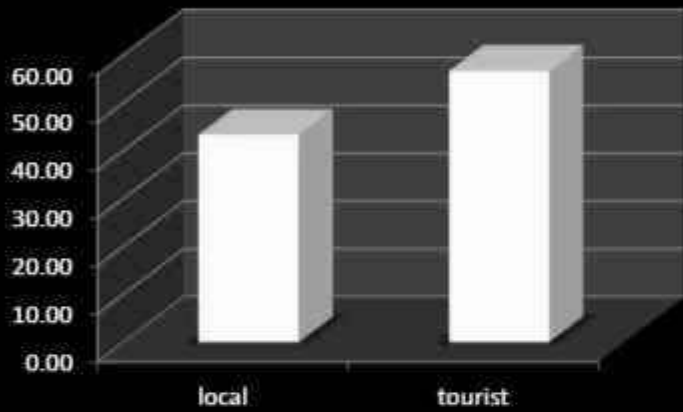
### ELECTRIBITY



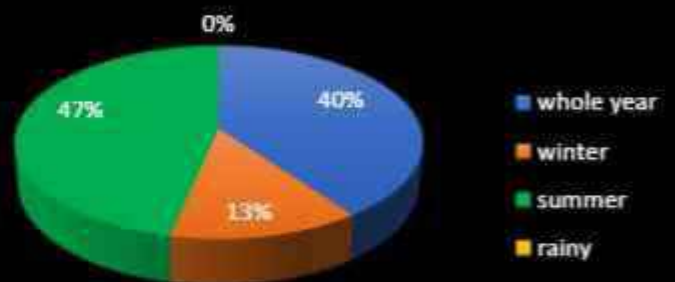
### INVOLBMENT OF FAMILY MEMBERS



### BUYERS

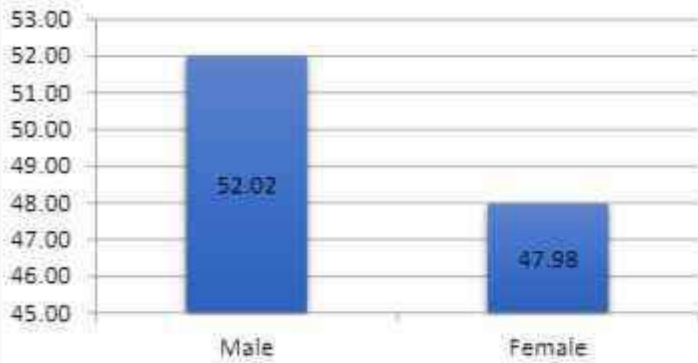


### BEST TIME FOR SALE

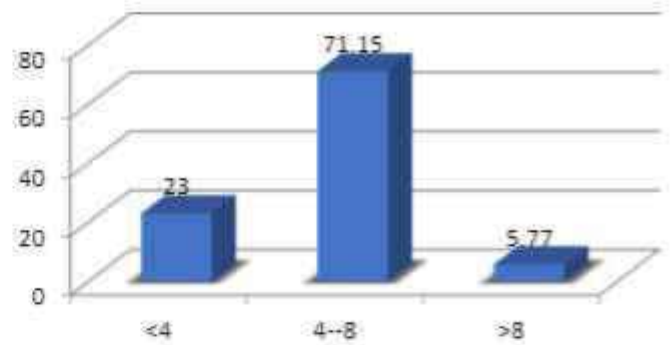


# Household Survey Table Report

## DEMOGRAPHY



## FAMILY SIZE



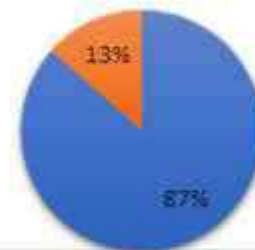
## RELIGION STRUCTURE

Legend: Hindu (Blue), Muslim (Orange), christian (Grey)

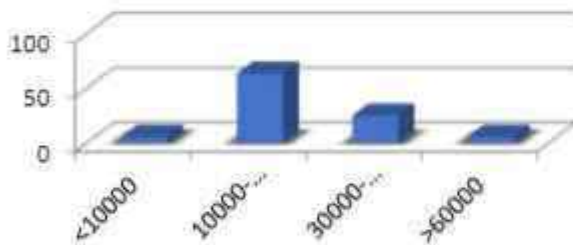


## LITERACY

Legend: Literate (Blue), Illiterate (Orange)



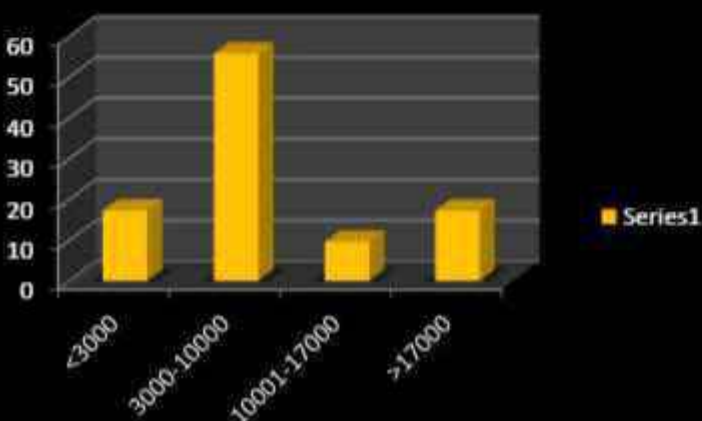
## AVG. MONTHLY INCOME



## AVG. MONTHLY EXPENDITURE



## AVG. MONTHLY SAVING

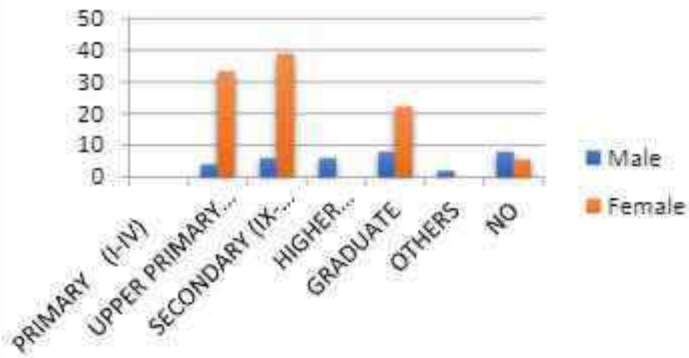


## CASTE STRUCTURE





### EDUCATIONAL STATUS



### OCCUPATIONAL STRUCTURE



### ROOF CONDITION



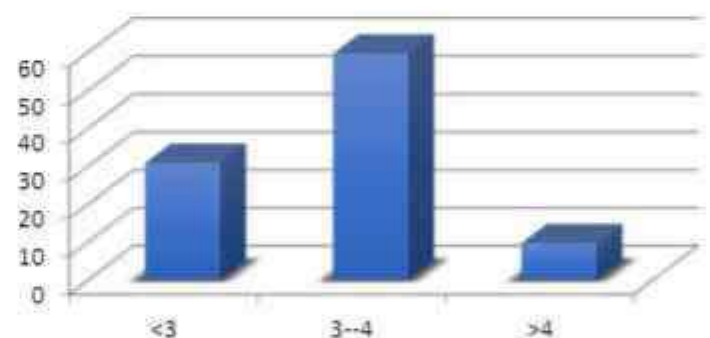
### FLOOR CONDITION



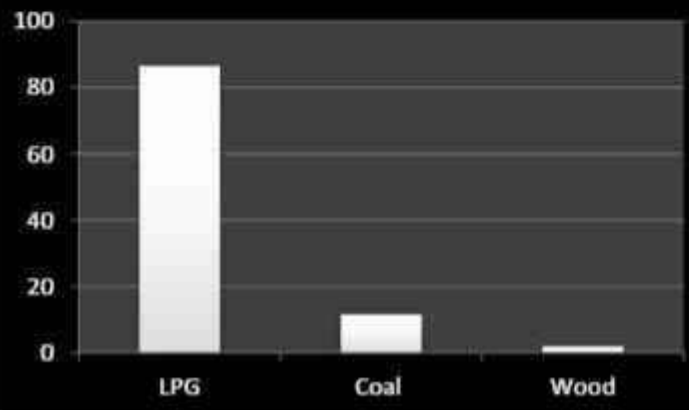
### WALL CONDITION



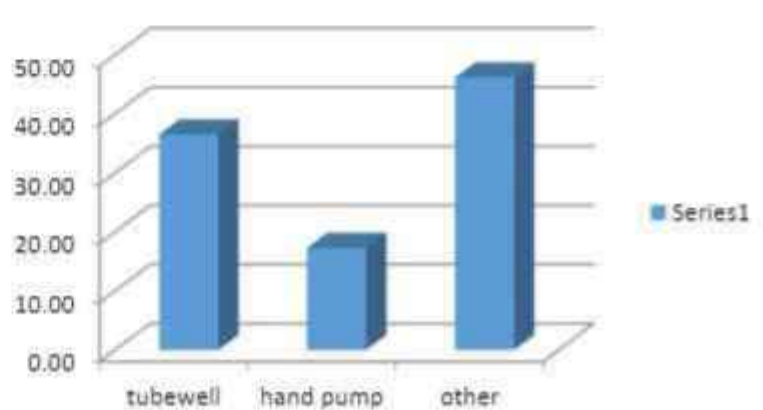
### AVG. NO. OF ROOMS



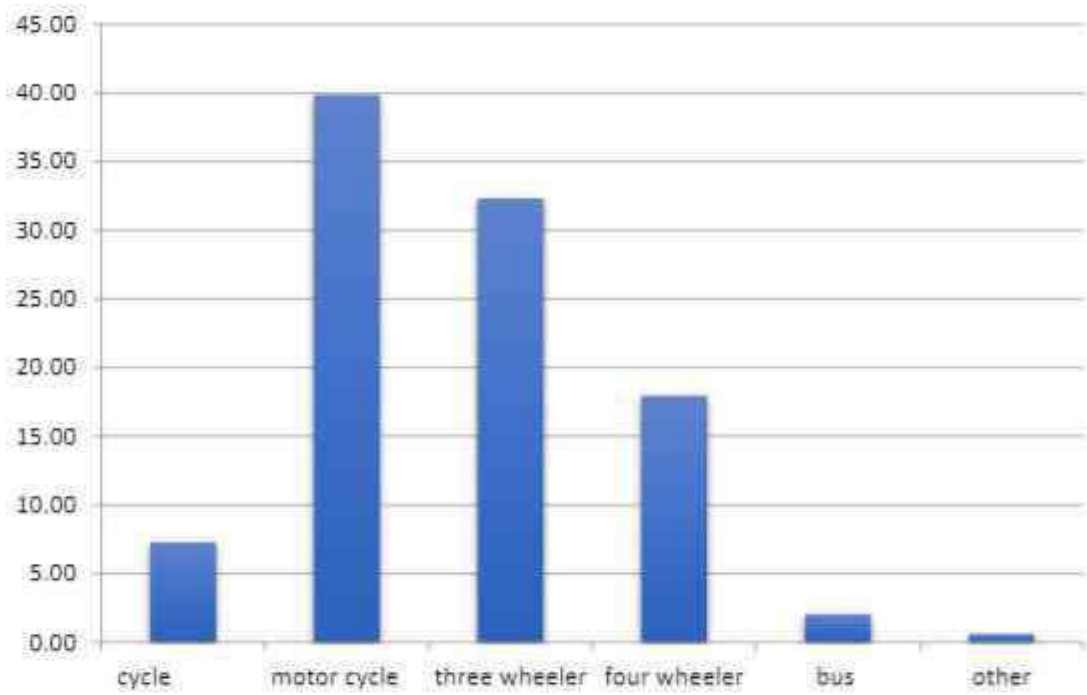
### FULE CONSUMPTION



### SOURCE OF DRINKING WATER



## TYPE OF VEHICAL



# ZOOLOGY





Educational Field visit at Banalata Resort to visit Emu farm.

Organised by: The Department of Zoology, Ramananda College, Bishnupur

Date: 13.12.2022

Time: 10:30 am

Sl.No	Name of the Participant	UID NO	Semester	Mobile NO
1	Subhoakha Nag	1172204790	I	9064816730
2	Soumili Bhankari	1172203801	I	8348863573
3	Pratishan Datta	2017326002	V	9832351404
4	Rima Laha	1172200746	Sem-2	9093559568
5	Mandira Karmakar	1172201725	I	7872863171
6	Sana Sabir Alam	20173213012	V	8972316266
7	Chandrika Barat	1172200248	Sem-I	8900406308
8	Bhumiika Bhuin	1172209685	Sem-I	9093509570
9	Besha Dutta	20173213002	Sem-V	7864958022
10	Swarnadip Sinha Bala	1172200483	Sem-I	9832860894
11	Arka Singhha Thakur	20173213009	Sem-V	9392787790
12	Sanjoy Lohar	20173213017	Sem-V	6297952635
13	Priyanka Patra	1172201424	Sem-I	6296349093
14	Arindita Dey	1172202618	Sem-I	7679467760
15	Asmita Pal.	20173126004	Sem-V	8001624862
16	Skirma Dey.	20173213028	Sem-V	8101301149
17	Snaha Singha	1172115097	Sem-III	9064462534
18	Sudimya Banerjee.	1172006597	Sem-V	9064633378
19	Susmita Lo	20173213001	Sem-V	7647657518
20	Shreyashee Dutta.	20173213021	V	9091146295
21	Saamyadeep Ganai.	1172200633	I	8392020181
22	Aditya Paul	20173213013	V	9382997920
23	SK Arif Hossain	1172203649	I	6290235700
24	Swarnab Digan	1172201846	Sem-1	7718494669
25	Rakesh Dhabar	1172200040	Sem-1	9832277626
26	Saugata Guin	1172202151	V	9249636109
27	Sanjoy Rautas	1172100387	Sem-III	9597963637
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DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR BARKURA



DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR BARKURA



Educational Field Visit at Banalata  
Resort to Visit EMU farm  
13.12.2022







Educational Field visit at Joypur to visit Poultry farm

Organised by: The Department of Zoology, Ramananda College, Bishnupur

Date: 13.12.2022

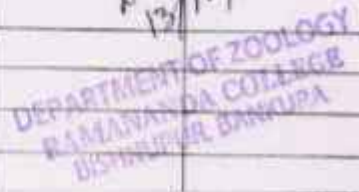
Time: 10:30 am

Sl.No	Name of the Participant	UID NO	Semester	Mobile NO
1	Rima Laha	1172200746	1st sem	9609559568
2	Chandrika Baraf	1172200248	Sem - P	8900406308
3	Soumili Bhandari	1172203801	I	8948363573
4	Bhramika Bheelin	1172204685	Sem - I	9093509570
5	Shreyashee Datta	20173213021	Sem - V	9091146295
6	Aditya Paul	20173213018	Sem - V	9382997920
7	Sania Sabir Alam	20173213012	V	8972316266
8	Assada Pal	20173126004	Sem - V	8001624862
9	Sneha Singha	1172115097	Sem - III	9064402534
10	Mandira Karmakar	1172201725	I	7872863171
11	Smruti Dey	20173213028	V	8101301143
12	Subhachha Nag	1172204790	I	9064816730
13	Pratipon Datta	20173126002	V	9832351404
14	Oindrila Dey	1172202510	Sem - I	7670467740
15	Priyanka Patra	1172201724	Sem - I	6295349093
16	Bosha Datta	20173213002	Sem - V	7864958092
18	Sudhya Banerjee	1172000597	Sem - V	7064638398
19	Sanjoy Lohar	20173213017	V	6297952635
20	Susmita Lo	20173213001	V	7047657518
21	Arika Singha Shakur	20173213009	V	9382787750
22	Soumyadeep Garai	1172200633	I	8392020181
23	SK Anif Hossain	1172203649	I	6290835700
24	Souradeep S. Bala	1172200483	I	9832860999
25	Rahesh Dhibar	1172200040	Sem - I	9832217626
26	Swarnab Digan	1172201846	Sem - I	7718494669
27	Sangata Guin	1172202761	Sem - I	0440636109
28	Sanjoy RUIDAS	1172100387	Sem - III	9547963637
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*J. D. Janta*  
13/12/22

*(Ph) f* 13/12/22

*A. B. B.*  
13/12/22







Educational Field visit at Joypur Forest, to study forest ecosystem.

Organised by: The Department of Zoology, Ramananda College, Bishnupur

Date: 13.12.2022

Time: 10:30 am

Sl.No	Name of the Participant	UID NO	Semester	Mobile NO
1	Chandrika Baral	1172200248	Sem - I	8900406308
2	Rima Laha	1172200746	Sem - I	9603552542
3	Priyanka Patra	1172201724	Sem - I	6290399093
4	Soubhmi Bhandari	1172203802	I	8348363572
5	Bhumiika Bheem	1172204685	Sem - I	9093509570
6	Dindile Aey	1172202510	Sem - I	7670467760
7	Asmita Pal	2017312004	Sem - V	8001624862
8	Sania Sahar Alam	20173213012	V	8972316266
9	Sneha Sinha	1172115097	Sem - III	9064402534
10	Snima Das	20173213028	V	9101301143
11	Mandira Karmakar	1172201725	I	7872863171
12	Pratipon Datta	20173126002	V	9832351404
13	Subheekha Nag	1172204790	I	9064816730
14	Shreyashee Dutta	20173213021	V	9091146295
15	Arka Singha Mukherjee	20173213009	V	9382787750
16	Susmita Lo	20173213001	V	7047657518
17	Sanjoy Lohar	20173213017	V	6297952635
18	Baontha Shutta	20173213002	V	7864958022
19	Sourmyadeep Gomat	1172200633	I	8392020181
20	Sulitya Banerjee	1172000597	V	9064638318
21	Aditya Paul	20173213013	V	9382997920
22	Sh. Arif Hossain	1172207649	I	6290815700
23	Secaramadip S. Bala	1172200483	I	9832860994
24	Rakesh Dhibar	1172200040	Sem - I	9832217626
25	Swarnab Dihar	1172201816	Sem - I	7718494009
26	Sangata Guha	1172202751	Sem - I	9749636100
27	Sanjoy Rudra	1172100387	Sem - III	9597963637
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*[Signature]*  
13/12/22

*[Signature]* 13/12/22

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13/12/22

DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR, BISHNUPUR



DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR, BISHNUPUR



Educational field visit at joypur forest, to study  
forest ecosystem  
13.12.2022





# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA

Pin – 722122, West Bengal

UGC Recognized & State Government Aided Constituent College

Under the Bankura University

(Accredited by NAAC at 'B<sup>++</sup>' Level, year 2021)

Tel - (03244)252059  
Tele Fax - (03244) 254427  
e-mail -principal@ramanandacollege.org  
Website-www.ramanandacollege.org

Ref. No.

Date-

To  
The Officer in Charge  
Murakata Goat Farm,  
Murakata, Kotulpur

**Subject: Educational Field Visit at Murakata Goat Farm, Kotulpur**

Respected Sir,

This is for your kind information that the odd semester students of Zoology Department of Ramananda College will visit the Goat farm on 13.12.2022 at 10.30 am along with four teaching staff. Hope you would be kind enough to arrange the Educational tour on that date.

Your kind cooperation is highly appreciated.

Thanking you

Yours faithfully

*Prakash Kumar Samra*  
Head 10/12/22  
Department of Zoology

*[Signature]*  
Principal

Ramananda College

Principal  
Ramananda College  
Bishnupur, Bankura

HEAD  
DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR, BANKURA







# RAMANANDA COLLEGE

**BISHNUPUR \* BANKURA**

Pin – 722122, West Bengal

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Tel - (03244)252059  
Tele Fax – (03244) 254427  
e-mail – principal@ramanandacollege.org  
Website-www.ramanandacollege.org

Ref. No.

Date- 09.12.2022

To  
The Principal,  
Ramananda College  
Bishnupur-Bankura.

**Subject: One day Educational Tour cum field visit at Murakata Goat farm and Joypur forest,  
Bankura on 14.12.22**

Respected Madam,

This is to inform you that the Zoology Department of Ramananda College will be conducting an Educational Tour cum Field Visit, according to the CBCS syllabus of Bankura University for odd semester students, at Murakata Goat farm and Joypur Forest on 13.12.2022 along with odd semester students, under the supervision of Dr. Nilanjana Chatterjee, Prof. Prakash Kumar Santra, Prof. Anindita Bar, Prof. Madhumita Mandi and two other non teaching staff Debtanu Sarkar and Bapan Das.

You would be kind enough to sanction "on duty Educational Tour"  
for the said date and oblige.

Thanking you

*Prakash Kumar Santra.*

(Prof. Prakash Kumar Santra)

09/12/22.

Head

Department of Zoology

HEAD

DEPARTMENT OF ZOOLOGY

RAMANANDA COLLEGE

BISHNUPUR, BANKURA



# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA

Pin - 722122, West Bengal

UGC Recognized & State Government Aided Constituent College

Under the Bankura University

(Accredited by NAAC at 'B<sup>++</sup>' Level, year 2021)

Tel - (03244)252059  
Tele Fax - (03244) 254427  
e-mail - principal@ramanandacollege.org  
Website - www.ramanandacollege.org

Ref. No.

Date- 09.12.2022

To  
The Principal,  
Ramananda College  
Bishnupur-Bankura.

**Subject: One day Educational Tour cum field visit at Murakata Goat farm and Joypur forest, Bankura on 13.12.22**

Respected Madam,

This is to inform you that the Zoology Department of Ramananda College will be conducting an Educational Tour cum Field Visit, according to the CBCS syllabus of Bankura University for odd semester students, at Murakata Goat farm and Joypur Forest on 13.12.2022 along with odd semester students, under the supervision of Dr. Nilanjana Chatterjee, Prof. Prakash Kumar Santra, Prof. Anindita Bar, Prof. Madhumita Mandi and two other non teaching staff Debtanu Sarkar and Bapan Das.

You would be kind enough to sanction "on duty Educational Tour" for the said date and oblige.

Thanking you

*Prakash Kumar Santra*  
(Prof. Prakash Kumar Santra) 09/12/22.

Head

Department of Zoology



HEAD

DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR, BANKURA

*Allexed*  
*Shan*  
*9/12/22*  
Principal  
Ramananda College  
Bishnupur, Bankura



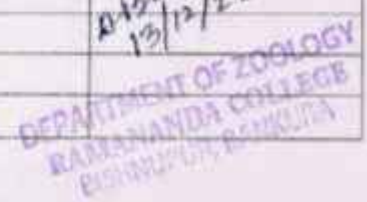


Educational Field visit at Murakata Goat Farm, Murakata, Kotulpur  
Organised by: The Department of Zoology, Ramananda College, Bishnupur  
Date: 13.12.2022 Time: 10:30 am

Sl.No	Name of the Participant	UID NO	Semester	Mobile NO
1	Poojapari Datta	20173126002	V	9832351404
2	Subhechha Nag	1172204790	I	9064816730
3	Mandira Karmakar	1172201725	I	7872803171
4	Chandrika Barua	1172200248	I	8900406308
5	Asmita Paul	20173126004	V	8001624862
6	Bousha Datta	20173213002	V	7864958022
7	Sournili Bhandari	1172203801	I	8348363573
8	Rima Laha	117220746	I	90955958
9	Prima Dey	20173213028	V	8101301143
10	Susmita Lo	20173213001	V	7047657518
11	Bhumika Bhuin	1172204685	Sem-I	9093509570
12	Chirbila Dey	1172202510	Sem-1	7619467760
13	Shreyashee Datta	20173213021	V	9091146295
14	Sanica Sabier Alam	20173213012	V	8942316266
15	Sneha Singha	1172115097	Sem-II	9004402534
16	Priyanka Patra	1172201724	Sem-1	0290399043
17	Arka Sanyal Bhakuni	20173213009	V	9392787790
18	Sudibya Banerjee	1172000597	V	9064838378
19	Sanjiv Lohar	20173213017	Sem-V	6297752635
20	Sougata Guin	1172202151	Sem-1	0749636109
21	Sourmyadeep Ganesi	1172200633	Sem-1	8392020181
22	Aditya Paul	20173213018	Sem-5	9382997920
23	Sh Anif Hossain	1172202644	I	6290235703
24	Sourmyadeep Sinha Babu	1172200483	I	9832860934
25	Rakesh Dhibar	1172200040	Sem-I	9832217626
26	Swarinab Dey	1172201896	Sem-1	778191689
27	Sarjod Raydas	1172100387	Sem-III	9597563657
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S. Sanyal  
13/12/22

Nh  
13/12/22  
R. Paul  
13/12/22





Educational Field visit at Murakata  
Goat Farm  
13.12.2022







**STUDENTS SEMINAR**  
by using ICT Tools



**GEOGRAPHY  
STUDENTS' SEMINAR**

## Geography Student Seminar 3rd Semester 2022

Sl no	Name	Tropic
1	Ananya mukherjee	Insolation
2	Arpita pal	Ice crystal theory
3	Mistu debgharia	Inversion of temperature
4	Dwipkul bala	Organ and characteristics of tropical and temperate cyclones
5	Ramendra nath saren	Green revolution
6	Antara dutta	Inversion of temperature
7	Jasimuddin mondal	Soil classification
8	Jyotilal kisku	Jet stream
9	Poulame samanta	Darjeeling hills
10	Priyanka kisku	Airmass
11	Debaprasad rakshit	Regional problem of Darjeeling hill
12	Sayandip sindal	Regional problem of Jangalmahal
13	Sonam ghatak	Monsoon in India



Head *Sahash*  
12/10/22  
Department of Geography  
Ramananda College  
Bishrupur Bankura

**GEOGRAPHY SEMINAR OF 5<sup>TH</sup> SEMESTER ( 2022)**

SL	NAME	UID	ROLL	TOPIC
1	AMBIKA LOHAR	20173119019	185	DEVELOPMENT OF GEOGRAPHY IN THE 20TH CENTURY: QUANTITATIVE REVOLUTION AND ITS IMPACT(TOUGHT)
2	ABHINANDAN BANERJEE	20173119017	186	URBAN GEOGRAPHY GEOGRAPGY ISSUES: PROBLEMS OF HOUSING, SLUMS, CIVIC AMENITIES (WATER AND TRANSPORT) (URBAN GEOGRAPHY GEOGRAPGY)
3	CHANDRIKA BETAL	20173119011	192	MAJOR RELIEF FEATURES OF THE OCEAN FLOOR; CHARACTERISTICS AND ORIGIN ACCORDING TO PLATE TECTONICS.(HYDROLOGY)
4	RIYA DE	20173119014	193	PATTERNS AND TRENDS OF URBAN GEOGRAPHY GEOGRAPGYIZATION IN INDIA(URBAN GEOGRAPHY GEOGRAPGY)
5	PALLAVI MIDDYA	20173119003	194	WATER MASS, T-S DIAGRAM(HYDROLOGY)
6	NEHA NAG	20173119012	198	DEVELOPMENT OF MODERN SCIENTIFIC GEOGRAPHY IN THE 19TH CENTURY WITH PARTICULAR REFERENCE TO THE CONTRIBUTIONS OF HUMBOLDT AND RITTER(TOUGHT)
7	SUMAN DEY	20173119010	199	CORAL REEFS: FORMATION, CLASSIFICATION AND THREATS(HYDROLOGY)
8	MAHAMUD HASSAN MONDAL	20173119020	206	CITY STRUCTURE- CONCENTRIC ZONE THEORY, SECTOR THEORY, (URBAN GEOGRAPHY GEOGRAPGY)
9	SOUMI KESH	20173119009	207	SEA LEVEL CHANGE: TYPES AND CAUSES(HYDROLOGY)
10	SOUVIK MANNA	20173119005	212	PATTERNS OF URBAN GEOGRAPHY GEOGRAPGYIZATION IN DEVELOPED AND DEVELOPING COUNTRIES(URBAN GEOGRAPHY GEOGRAPGY)
11	SINDHIYA DAS	20173119007	213	RUN OFF: CONTROLLING FACTORS,RUN OFF CYCLE(HYDROLOGY)





12	RACHANA KARMAKAR	20173119001	1168	APPROACHES TO GEOGRAPHIC STUDIES: SYSTEMATIC VS. REGIONAL APPROACH(TOUGHT)
13	CHAITALI BARAT	20173119002	1169	MARINE RESOURCES: CLASSIFICATION AND SUSTAINABLE UTILIZATION(HYDROLOGY)
14	REEKA DUTTA	20173119006	1170	AMERICAN SCHOOL , INDIAN SCHOOL(TOUGHT)
15	DIPESH SAHA	20173119004	1171	GERMAN SCHOOL , BRITISH SCHOOL(TOUGHT)
16	ROMESH ROY	20173119021	209	SYSTEMS APPROACH IN HYDROLOGY. GLOBAL HYDROLOGICAL CYCLE: ITS PHYSICAL AND BIOLOGICAL ROLE(HYDROLOGY)
17	ISHIKA HALDAR	20173119022	195	URBAN GEOGRAPHY GEOGRAPGY FRINGE, CITY-REGION(URBAN GEOGRAPHY GEOGRAPGY)
18	RANA CHAKRABORTY	20173119018	190	CENTRAL PLACE THEORY; AUGUST LOCH'S THEORY OF MARKET CENTRES(URBAN GEOGRAPHY GEOGRAPGY)
19	SAINIK BAURI	20173119008	208	DEVELOPMENT OF GEOGRAPHY IN THE 20TH CENTURY: QUANTITATIVE REVOLUTION AND ITS IMPACT(TOUGHT)

DATE-



Head  
12/10/24  
Department of Geography  
Ramananda College  
Bishrupur Bankura

Student Seminar 2022-23  
Geography Department

HAPPY TEACHERS DAY

#### Definition

- An automobile is a passenger vehicle with four wheels and a gearbox that steers and moves the vehicle.
- The automobile industry encompasses all manufacturers and retailers involved in the manufacturing of motor vehicles, including most components, such as engines and bodies, but excluding tires, brakes, and fuel.



### Bishnupur, West Bengal, India

387G+X29 Statue Of Ramananda Chatterjee, Statue Of Dr. B.C.Roy, Ramananda College Rd, Dalmadal Para, Bishnupur, West Bengal 722122, India

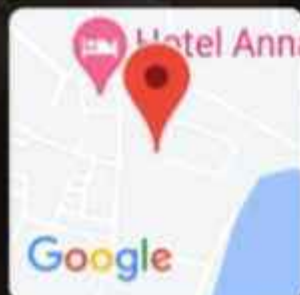
Lat N 23° 3' 53.568"

Long E 87° 19' 30.2016"

07/11/22 12:03 PM

HAPPY TEACHERS DAY

#### SOCIAL ISSUES



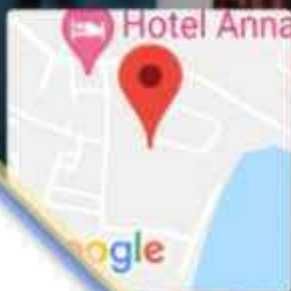
### Bishnupur, West Bengal, India

387G+X29 Statue Of Ramananda Chatterjee, Statue Of Dr. B.C.Roy, Ramananda College Rd, Dalmadal Para, Bishnupur, West Bengal 722122, India

Lat N 23° 3' 53.9028"

Long E 87° 19' 30.342"

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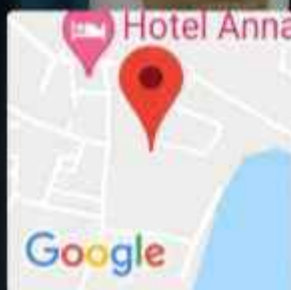
Bishnupur, West Bengal, India

387F+WXM, Dalmadal Para, Bishnupur, West Bengal 722122, India

Lat 23.064693°

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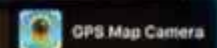
Bishnupur, West Bengal, India

387F+WXM, Dalmadal Para, Bishnupur, West Bengal 722122, India

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Long 87.325208°

20/12/21 04:19 PM





# What is Coral Reef ?

Coral reefs are diverse underwater ecosystems held together by calcium carbonate structures secreted by corals.



GPS Map Camera



**Bishnupur, West Bengal, India**

Statue Of Swami Vivekananda, Ramananda College Rd, Dalmadal Para,  
Bishnupur, West Bengal 722122, India

Lat 23.064688°

Long 87.325258°

21/12/21 12:00 PM



**Bishnupur, West Bengal, India**

387G+W3W Statue Of Swami Vivekananda, Ramananda College Rd, Dalmadal  
Para, Bishnupur, West Bengal 722122, India

Lat N 23° 3' 53.6652"


Long E 87° 19' 30.504"

07/11/22 11:48 AM

**COMPUTER SCIENCE  
STUDENTS' SEMINAR**

Student Seminar on Process life cycle  
Department of Computer Science  
18.01.2023



 **GPS Map Camera**

**Bishnupur, West Bengal, India**

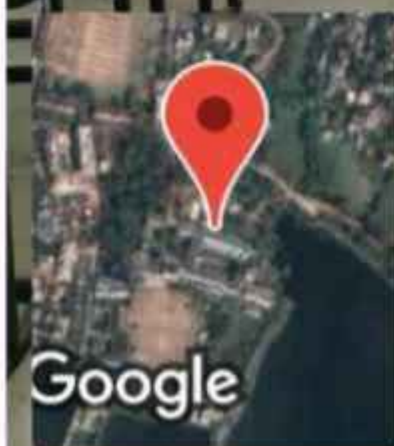
388G+477, Dalmadal Para, Bishnupur,

West Bengal 722122, India

Lat 23.065038°

Long 87.325793°

18/01/23 02:10 PM GMT +05:30





Student attendant details

STUDENTS' SEMINAR ON  
PROCESS LIFE CYCLE

NAME OF THE DEPARTMENT: COMPUTER SCIENCE

Sl. NO	NAME OF THE STUDENTS	PRESENTED / PARTICIPATED	TOPIC	SEM	SIGNATURE
1.	Jiyasa Rathore	Participated	-	1st	Jiyasa Rathore (18.01.2023)
2.	Bansha Karmakar	participated	-	1st	Bansha Karmakar (18.01.2023)
3.	Risha Goswami	presented	process lifecycle	3rd	Risha Goswami (18.01.2023)
4.	Rajib Mondal	participated	-	3 <sup>rd</sup>	Rajib Mondal (18.01.2023)
5.	Rohit Dey	participates	-	1st	Rohit Dey (18.01.2023)
6.	Sobhan Patra	Participated	-	1st	Sobhan Patra (18.01.2023)
7.	Anirban Dutta	participated	-	3rd (top)	Anirban Dutta (18.01.2023)
8.	Anisit Khan	Participated	-	5th	Anisit Khan (18.01.2023)



STUDENTS' SEMINAR ON  
PROCESS LIFE CYCLE

NAME OF THE DEPARTMENT: COMPUTER SCIENCE

9.	Pranab Mahata	Presented	Process Lifecycle	5th	Pranab Mahata (18.01.2023)
10.	Sibhadil Chakraborty	participated	-	1st	Sibhadil Chakraborty (18.01.2023)
11.	Sumon Sen	Participated	-	1 <sup>st</sup>	Sumon Sen (18.01.2023)
12.	Jyoti Saha	Participated	-	2 <sup>nd</sup>	Jyoti Saha (18.01.2023)
13.	Souvik De	presented	process life cycle	3rd	Souvik De (18.01.2023)
14.	Kushi Goswami	presented	process life cycle	1st	Kushi Goswami (18.01.2023)
15.	Souvik Mondal	presented	Process life cycle	1st	Ksh Souvik Mondal (18.01.2023)
16.	Tapan Chatterjee	Presented	Process life cycle	3rd	Tapan Chatterjee (18.01.2023)

STUDENTS' SEMINAR ON  
PROCESS LIFE CYCLE

NAME OF THE DEPARTMENT: COMPUTER SCIENCE

NAME OF THE PARTICIPATED TEACHERS:

1. Aparna Sathian 18/01/2023
2. Rakati Ramakrishna 18.01.2023
3. Anurag Chatterjee 18.01.2023



EDUCATION  
STUDENTS' SEMINAR



A ONE DAY UNIVERSITY LEVEL SEMINAR  
ON  
HIGHER EDUCATION IN THE LIGHT OF NEP-2020

Organised by:  
Department of Education

In Collaboration with IQAC, Ramananda College  
Ramananda College  
Bishnupur, Bankura

Venue -  
Rannalini  
Chakraborty Hall

DATE-28.07.23  
TIME-1 P.M.

The poster features a yellow border and two circular logos at the top corners. The background is a light blue and white pattern. The text is in various colors: green and yellow for the main title, purple for 'ON', blue for 'HIGHER EDUCATION...', pink and purple for the organizer, black for the collaboration, and green and yellow for the venue. The date and time are in blue and pink.





Ramananda College  
Department of Education  
A one day university level seminar  
On  
"Higher Education in the light of NEP-2020"

Date: 28/7/23

S.I No	Name	Signature	Designation	Mail Id
1	Sanchita Karmakar	Sanchita Karmakar	Student	karmakarsanchita035@gmail.com
2	Riya Lohar	Riya Lohar	Student	riyalohar55@gmail.com
3	Anima Tuder	Anima Tuder	Student	animatuder11@gmail.com
4	Megha Bose	Megha Bose	Student	bosemegha69@gmail.com
5	Disha Biswas	Disha Biswas	Student	biswasdisha428@gmail.com
6	Indrani Hazra	Indrani Hazra	Student	Indranihazra2005@gmail.com
7	Nipa Mahadanda	Nipa Mahadanda	student	mahadandanipa@gmail.com
8	Sneha Dutta	Sneha Dutta	Student	snehadjujua@gmail.com
9	Baisakhi Mandal	Baisakhi Mandal	Student	tarapadam80@gmail.com
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ZOOLOGY  
STUDENTS' SEMINAR

# RAMANANDA COLLEGE

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**Estd.: 1945**

UGC Recognized & State Government Aided Constituent College  
Under the Bankura University (dt.-01.01.2017)  
(Re-Accredited by NAAC 3<sup>rd</sup> Cycle at B ++ Level)

Ref. No.....

Date...14.11.22...

From : Principal  
Secretary, G.B.

To  
Sri Subrato Ghosh  
Assistant Fishery Officer  
Directorate of Fishery  
Govt. Of W.B

**Subject: Appreciation for your invited lecture in our college on 12/11/2022**

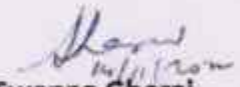
Dear Sir,

I would like to thank you for your interesting and informative speech on "**Ornamental Fish Keeping and Entrepreneurship opportunities in Freshwater Ornamental Fish Farming in West Bengal**" in our college on 12/11/2022. Students and faculties were very much benefitted from your ideas on the above topic.

Thank you very much for sharing your ideas with us. All the best for your future.

Regards,



  
Dr. Swapna Ghorai,  
Ramananda College,  
Bishnupur, Bankura.  
West Bengal

*Principal*  
Ramananda College  
Bishnupur, Bankura

### **Brief Biodata**

Subrato Ghosh completed his MSc in Applied Aquaculture from Barkatullah University, Bhopal in 2003 securing first position in first class. He worked as Junior Research Fellow at Department of Fishery Pathology and Microbiology, WB University of Animal and Fishery Sciences; as Senior Research Fellow both at ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar and ICAR-Central Inland Fisheries Research Institute, Barrackpore; as Part-time Lecturer in MSc Fishery and Aquaculture course at Department of Zoology, Utkal University, Bhubaneswar. He has participated in 6 State-level, 16 National and 3 International Conferences in India and presented scientific papers on freshwater aquaculture in all of them. He has authored 11 papers published in Aquaculture Asia, published by Network of Aquaculture Centres in Asia-Pacific, Thailand and in Journal of World Aquaculture Society, USA. He joined Directorate of Fisheries, Government of West Bengal as Fishery Field Assistant in January 2013 securing first position in merit list in WBPSC exam, worked as Fishery Extension Officer at Block level from June 2017 till April 2022 and presently working as Assistant Fishery Officer under this Directorate at South 24 Parganas District Headquarters.



## Empowerment of rural women through income-generating ornamental fish culture and other pisciculture practices

Subrato Ghosh

122/1V, Monohar Pukur Road, P.O. Kalighat, Kolkata – 700026

### Highlight points

Participation of women in finfish farming activities, both edible and non-edible (ornamental) ones, will improve economy of rural families and enhance their nutritional status *via* partial use of pond-reared fishes for household consumption. Economic and livelihood security of rural women can be assured. Propagation of familiar and less-familiar aquarium fishes is less capital-intensive and less labour-intensive affair, can be adopted by women in semi-urban and rural areas. An idea is presented here on different facets of women-friendly pisciculture activities with emphasis on ornamental fish farming involving women groups in South 24 Pgs, West Bengal.

### Introduction

Freshwater and brackishwater pisciculture, *i.e.*, farming of economically-important foodfishes in controlled systems under confined pond conditions have been playing important role in addressing nutritional and livelihood security of poor sustainably in developing countries. Farming of finfishes and shellfishes, *i.e.*, aquaculture has received much attention of Central and State Governments, farming community, scientists and others in recent years. This vocation has emerged as the key viable income-generating option for poor in rural India. Rural womenfolk, especially those from marginalized section of the community, have always played important role in livelihood generating activities and traditionally women in India contributed generously in fishery and homestead pisciculture sectors.

Women-friendly freshwater pisciculture technologies like ornamental/aquarium fish breeding and rearing in rectangular cemented cisterns in home land and backyard ponds, farming of economically-important nutritious catfishes *Clarius batrachus* and *Heteropneustes fossilis* in cemented cisterns, controlled breeding and seed production of exotic carp *Cyprinus carpio* in cloth enclosures in ponds during winter, formulated farm-made (pellet-type) feed preparation for edible and ornamental fishes, seed production of major carps in FRP portable hatchery - these can be easily implemented by rural women utilizing locally-available resources and can be adopted on small- to medium-scale for income and employment generation (individually or in form of SHGs) without jeopardizing their household activities. As for instance, according to officers of Freshwater Fisheries Research and Training Centre (FFRTC), Government of West Bengal (WB), a minimum net profit of Rs 27,850/- can be obtained in a year (Rs 2,500-4,500/- / month) from farming of familiar ornamental fishes guppy, molly, swordtail and platy. Common interest group of fisherwomen in a village can work together by shouldering the responsibilities equally and jointly.

A report of WorldFish, Malaysia states that in 2012, female fish farmer Shahnaz Dewan at Adabari village in Tangail District, Bangladesh stocked 5500nos of large-sized fish fingerlings in 24dec pond and followed proper fish pond management practices. After 105-110 days, in early September, she harvested total 1020kg of *Tilapia nilotica* and 40kg of major carps, which she sold for BDT 140,180 (1 BDT = 0.012US\$). She then stocked carp fingerlings and harvested again in



early February 2013, this time obtained 350kg adult fishes and earned BDT 42,000. Her overall total production during 2012-2013 was 1410kg, yielding a gross profit of BDT 97,930. She served as a demonstration farmer, educating and influencing her neighbours. Likewise, quite a few noteworthy instances and success stories can be discussed about in context of eastern and north-eastern states of India, namely Odisha, WB, Assam and Tripura.

### **Spawn rearing and fry-staged fish production**

In rural WB, most houses have a small backyard pond 100-800sqmt in area. It lies fallow, semi-clean and weed-infested, can be renovated and converted into a fish pond. These are ideally suited for rearing/nursing spawn-stage seed of *Labeo rohita*, *Catla catla*, *Cirrhinus mrigala* and exotic major carps by women of the family. In a study on involvement of womenfolk in aquaculture in rural Odisha, it was found that a backyard pond 200sqmt in area could produce as much as 19,000nos fry and 3,000nos fingerlings, yielding a total income of Rs 1,700/- in a period of 4 months. Resources around the home of resource-poor women can be used in such homestead fish seed rearing units, who can easily attend household works like cooking, taking care of their children and domestic animals.

Rearing of hatchery-produced spawn (3-days old) of economically-important cultivable freshwater fishes upto fry (22-25mm) stage is a preferred package of practices for resource-poor fisher-womenfolk, where 1,50,000nos fry of Indian major carps can be produced in 25dec pond in 15-18 days period and sold to grow-out fish farmers, giving an income of Rs 5,000-6,000/-. Smaller and seasonal backyard ponds 0.02-0.05 hectares in area having water depth 0.6-1.0mt are preferred for fry rearing. In this way, unutilized water resources of villages can be used productively. Rural women can adopt it as an income-generating activity; fry stages can be sold and supplied to fish growers in same village who will get healthy and quality major carp fry for stocking in larger ponds without bothering for transportation and mortality.

### **Rearing indigenous magur *Clarius batrachus* in cemented cisterns**

The magur fish *C. batrachus* is air-breathing, nutritious, has medicinal properties, high-priced and has good demand in WB. Many unemployed youths have become interested in culture of *C. batrachus* in cement cisterns in their backyard. Its advanced fry (8-10gm) grows upto marketable size in 4 months in rectangular cement cisterns if fed fish-meal based farm-made supplementary feed. Entire water can be drained off from cisterns and fishes can be harvested easily. Presently 58 private hatcheries in WB produce induced-bred healthy seeds of indigenous magur, which can be procured for culture. Important features of this activity are: 1) Tank size: 8feet x 4feet x 3feet, two inch slope on one side and overhead shade; 2) Indigenous Magur seeds 8-10gm size stocked @ 8-10nos / sqfoot; 3) Seeds treated with 1ppm Potassium permanganate soln. for 5 minutes before stocking; 4) Mixture of fish meal, ground nut oil cake and rice bran in equal proportions fed to growing fishes 2 times a day @ 20% of bw; 5) Water replenishment done 50-60% two times a week; 6) At end of 3-4 months, 12-16kg marketable-sized Magur (50-60gm) obtained from tank; 7) Smaller-sized seeds (35-40 days old, 2.0-2.5 inch) can be stocked, price Rs 4-6/- / piece.

### **Ornamental/aquarium fish farming**



Breeding and propagation of freshwater exotic ornamental (aquarium/coloured) fishes has proved to be an important avenue for increasing employment opportunities for rural women through small- to medium-scale farming units. It is an income-generating activity and priority sector where women can be gainfully involved, either individually or as SHGs. Basic requirements for setting up a backyard ornamental fish rearing unit are: 300-400sq feet or 25-27 sqmt land area; 5-6nos rectangular cement cisterns (2000-3000lit capacity), water depth 2 feet; overhead shade; portable water source (submersible pump, tube well or well water); few glass aquaria (150lit capacity); adult fishes or brood fishes brought from market; small feed pelletizer and raw feed ingredients; live food; medicines (Malachite green, Methylene blue, Potassium permanganate); portable aerators or air blower; bio-filter; fish sampling nets; immersion heater; fish packing polythene packets; oxygen cylinder.

This sector provides huge possibilities for empowering women economically and is a flourishing avenue of self-employment generation. State of WB has substantial involvement of women in propagation of aquarium fishes and an established avenue of women entrepreneurship. It is easy to start with live bearers; once women get acquainted with the care of brooder fishes, fry handling - slowly the unit will expand.

Features in succession in breeding and rearing of goldfish *Carassius auratus* are: 1) Adhesive eggs, thickly planted aquarium needed; 2) Spawning grids 6mm x 6mm placed in glass tank; 3) Frame/grid placed in bottom of tank, height 5cm from bottom; 4) Male and female broodstock maintained separately for a month on balanced feed; 5) Male : Female in 1:1 or 2:1 ratio released in spawning tank; 6) Within 12-20 hours, females release eggs; broodstock taken out after spawning; 7) Golden coloured fertilized eggs visible at tank bottom, may remain attached to plants; 8) After 48 hours, eggs hatch and larvae are produced; 9) From 72<sup>nd</sup> hour, goldfish larvae fed with small rotifers (zooplankton) for further development for one week; 10) Feed on zooplankton *Daphnia* and *Moina* and powdered feed (pulverized fish meal) for next 15 days; 11) Shifted to cemented rectangular tanks (5x3) or (6x3) sq.feet; 12) Within 100-120 days, it reaches to marketable size; 13) Feed preparation with mustard oil cake, rice polish, soyabean meal, pulverized fish meal and shrimp head waste/trash shrimp meal (powdered) may be used for goldfish.

#### **Features in breeding and rearing of live bearing fishes (guppy *Poecilia reticulata*, molly *Poecilia sphenops*, sword tail *Xiphophorus hellerii*)**

It includes: 1) Time required to attain maturity by adults: a) For platy, swordtail, guppy: 6-8 weeks; b) molly: 12-16 weeks; 2) Eggs develop inside the body of adult mother, young ones born with or without yolk sac; 3) Spermatozoa of male retained within body of females; 4) Gestation period: 1 month, 50-70 young ones take birth in single time; 5) Males and females kept separately, introduced into breeding tank just prior to breeding; 6) Pregnant females should be handled cautiously; 7) Diffused illumination required, young ones reared on zooplankton; 8) Box-type perforated cylindrical container can be kept fitted into wall of cement tank for 2-4 gravid females, so that newborns can drop through mesh into tank water; 9) Breeding tank must have thick plantation (*Hydrilla*); 10) For swordtail, it takes 24-36 hours for all young ones to have birth (about 30-80nos every time); 11) After 5 weeks, it again gives birth to young ones; 12) For guppy and molly, 1 tablespoon common salt may be added into tanks where young ones remain; 13) Three-day old young ones may be stocked @ 4000-4500nos. / tank; 14) For red molly, on 6<sup>th</sup> month, those are



stocked in spawning chambers as large earthen bowls 1.5-2.0 feet diameter in ratio 5:1 (Female : Male); 15) Gravid females move along the sides in upper water column; 16) Those are carefully collected in released in *maateer maalsa* or earthen bowl 6 inch diameter, one female in each container; 17) In 24 hours, a female gives birth to 150 fully-formed young ones.

#### **Women-led Uttar Jafarpur ornamental fish co-operative society and SHGs**

According to scientists of ICAR-CIFA, Bhubaneswar, an investment of Rs 75,000/- (capital and recurring investment of Rs 50,000/- and Rs 25,000/- respectively) gives a return of Rs 50,000/- / year from a livebearer backyard small-scale ornamental fish culture unit, where village women can have active involvement. Both live bearers and egg layers can be bred and reared for commercial purpose, hormonal injection is not required. Backyard units (cement cisterns) can be established in 500-1000sq.feet area with investment ranging upto Rs 80,000/-. A single guppy, molly, angel fish and goldfish are rated within Rs 5-20/- / piece in ornamental fish wholesale markets in WB.

Such an enterprise generates income for the unemployed youth to women homemakers. Members of the prominent Uttar Jafarpur Women Ornamental Fish Cooperative Society in Falta CD Block, Dist. South 24 Pgs, WB (where author has visited) aspire to stick to this occupation for long. This Mohila Rangin Maachh Samabay Samity (recipient of award from Hon'ble Chief Minister of WB) was established in 2003 and started with 15 women, begun with breeding and propagation of mollies - white, black and red in large earthen bowls/vessels. Thereafter cement cisterns 6feet x 2feet size were purposefully constructed. Currently, this actively-functioning registered Coop Society in ornamental fishery sector, run by women, has 36 core members (Rita Gure, Sujata Gure, Sunita Guchhait and others) engaged in daily nurture of the young ones (bought @ Rs 1.00-2.00/-/piece) and adults of 20 species of high-valued ornamental fishes. Many of these women practice aquarium fish farming at home in addition to working for the Cooperative. They have cement tanks in their backyards for maintaining brooders or curing infected ornamental fishes, and have family-owned or shared or taken-on-lease ponds where such fishes are propagated in inverted mosquito net-type enclosures fixed in ponds, with about 50000nos of growing aquarium fishes in 8dec pond (2000-2500nos / enclosure). Marketable-sized fishes have assured supply to wholesalers in Howrah district; husbands of women members go to markets to sale the produce, profit obtained as expected by dint of honesty, hard work and self-taught skills and experience. Home-made dry food fed to growing fishes. On an average, ornamental fish farming brings Rs 7,000-14,000/- / month for each woman in Uttar Jafarpur Ornamental Fish Cooperative Society; it has brought marked change in quality of life in this village in South 24 Parganas and led to increase in their family income.

The hub of ornamental fish farming in South 24 Parganas district includes Falta Block that consist more than 50 women-led SHGs; other adjacent Blocks where women-led SHGs are working exclusively and successfully on backyard ornamental fish farming include Budge Budge-II (with 8 SHGs), Bishnupur-II (5 SHGs), Mograhat-I (3 SHGs) and Mograhat-II (2 SHGs). These women have advanced their skills and knowledge through training programmes conducted by WB University of Animal and Fishery Sciences, Kolkata and Department of Fisheries, Government of WB (both at FFRTC and Block-level). Swapna Majhi, member of WB Government-instituted Swarnali Women Cooperative in Nandabhanga village in Bishnupur-II Block breeds and propagates ornamental fish in 15 tanks at her house. At more than Rs 5,000/- per month, she has almost tripled her income.



Likewise, Meen Kanya Rangin Maachh Mahila Samabay Samity Ltd., Nadia; Surya Kiran Rangin Maachh Mahila Samabay Samity Ltd., Kaliaganj Block, Uttar Dinajpur; Swapna Rangin Maachh SHG, Budge Budge-II Block to name a few, have grown up in WB, all run by women.

### **Epilogue**

Women SHGs or Primary Cooperative Societies may be organized with common interest and similarity in economic status, especially from the poorer section of society. Many technology options have been identified through participatory approach by scientific personnel of Krishi Vigyan Kendras established in different states at district level. In view of multiple options of available fish farming technologies, labour efficiency and self-employment potential for rural women, such women-friendly technologies will be expanded widely in days to come, which will be highly rewarding in economic terms. Three quarters of the SHGs in Western Odisha Rural Livelihoods Project conducting aquaculture are women groups. Under this Project, with regards to aquaculture, women participate in auctions for the lease of water bodies, obtaining loans from banks, gaining credit worthiness, gaining technical skills and expertise to help them conduct fish culture.

Women SHGs can serve as means of generating much needed resources and family income, as an avenue for increasing women's agency and well-being and for addressing wider needs of the communities in which women live. Government Extension staff study the condition of women in a village and sensitize them to join together and form groups. Need-based training programmes and problems of women are identified. If women may show interest in ornamental fish farming, training programmes should be conducted and imparted. Women participate in it and form SHGs. After pooling fund from the group and other sources, they form a cooperative and start small business. Women fishery cooperative steadily earns money, maintain bank accounts, bring upliftment in socio-economic status of the family. In South 24 Parganas district, women are very recently coming up in preparing value-added food products from small indigenous local freshwater fishes and from those left unsold in registered and non-registered fish retail markets.

In rural Bangladesh, many women are involved in inland fishery and pisciculture activities. Year after year, they continue to be essential in improving nutrition, increasing production and distribution of food and enhancing living conditions of their families. Under the Community-Based Fisheries Management Project of WorldFish Center, many self-sustaining independent women could be created in 22 districts of Bangladesh, who manage their own fish ponds, eventually take the lead in breaking rural poverty cycle. In WB, there is ample scope of empowering rural women through integrated fish farming with poultry and duckery components in addition to those discussed above. In India, under different projects funded by Central and State Government, efforts have been made to develop skill and empower rural women in fish farming technology; different packages of practices introduced through demonstrations and participatory trials in many parts of the country. With research and extension programmes, it is expected that aquaculture vocation will be made more attractive to women. During 2006-2009, author had worked with members of Maa Biswamata SHG at Kendrapara district of Odisha and disseminated technologies like fish seed production in portable FRP hatchery, raising fry and fingerlings of major carps. It led to capacity building of the SHG women members to a considerable extent and the activities have become a sustainable source of livelihood for them.

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Ornamental Fish Keeping And Entrepreneurship  
Opportunities in Freshwater Ornamental Fish Farming  
in West Bengal  
12.11.2022



**Bishnupur, West Bengal, India**

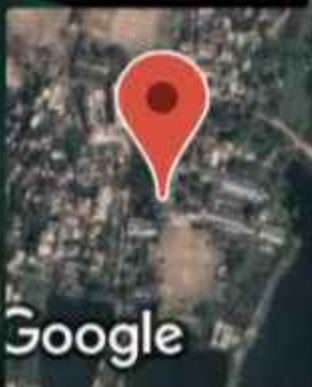
387F+WXM, Dalmadal Para, Bishnupur, West Bengal  
722122, India

Lat 23.064934°

Long 87.324849°

12/11/22 11:02 AM GMT +05:30

GPS Map Camera



**Bishnupur, West Bengal, India**

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**"Ornamental Fish Keeping and  
Entrepreneurship Opportunities in  
Freshwater Ornamental Fish Farming in  
West Bengal"**



Organised by



DEPARTMENT OF ZOOLOGY  
IN COLLABORATION WITH  
Career Advancement Cell & IQAC, Ramnanda College

Venue: Ramnanda Chakraborty Hall, Ramnanda College  
Date: November 12, 2022, Time: 10:30 am





 GPS Map Camera



**Bishnupur, West Bengal, India**

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 GPS Map Camera



**Bishnupur, West Bengal, India**

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Long 87.324924°

12/11/22 11:26 AM GMT +05:30





**Ornamental Fish Keeping and Entrepreneurship Opportunities in Freshwater Ornamental Fish Farming in West Bengal**  
ORGANISED BY – DEPARTMENT OF ZOOLOGY, Ramananda College  
in Collaboration with Career Advancement Cell & IQAC, Ramananda College  
Venue: Ramnani Chakraborty Hall, Ramananda College

DATE: 12 / 11 / 2022 & Time: 10:30am

SL NO.	FULL SIGN OF PARTICIPANTS	CATEGORY (TEACHER / SCHOLAR / NON TEACHING STAFF / OTHERS)	DEPARTMENT
01	Subhodka Nag	Student (UG - 1st sem)	Zoology Hons.
02	Rima Laha	Student (UG - 1st Sem)	Zoology Hons.
03	Bhumika Bhui	Student (UG - 1st sem)	Zoology Hons.
04	Chandrika Bariat	Student (UG - 1st sem)	Zoology Hons.
05	Mandira Karmakar	Student (UG - 1st sem)	Zoology Hons.
06	Soumili Bhandari	Student (UG - 1st sem)	Zoology Hons.
07	Rupanka Patra	Student (UG - 1st Sem)	Zoology Hons.
08	Pratipon Datta	Student (UG - 5th sem)	Zoology Hons.
09	Susmita Lo.	Student (UG - 5th sem)	Zoology Prog.
10	Subipta Khoo	Student (UG - 5th Sem)	Zoology Prog.
11.	Shubashish Das De	Student (UG - 3rd Sem)	Zoology Prog.
12.	Aditya Paul	Student (UG - 5th Sem)	Zoology Prog.
13.	SUPRIYA KAPSI	STUDENT (UG - 3rd Sem)	ZOOLOGY PROG
14.	Somashree Pal	Student (UG - 3rd Sem)	Zoology Prog
15.	Mandira Tudu	Student (UG - 3rd Sem)	Zoology programme
16.	Sneha Singha	Student (UG - 3rd Sem)	Zoology hons
17.	Shreyasree Dutta.	Student (UG - 5th sem)	Botany (prog).
18.	Snima Dey.	Student (UG - 5th sem)	ZOOLOGY PROG.





SL NO.	FULL SIGN OF PARTICIPANTS	CATEGORY (TEACHER / STUDENT / NON TEACHING STAFF / OTHERS)	DEPARTMENT
19.	Swarnab Digan	Student (Ug - 1st Sem)	Zoology Hons
20.	Soumyadeep Ghosal	Student (ug - 1st sem)	Zoology Hons
21.	Rakesh Dhibar	Student (Ug - 1st sem)	ZOOLOGY HONS.
22.	Bristi Das.	student (Ug - 1st sem)	Pol. science - (programme)
23.	Soma Gosai	Student (ug - 1st Sem)	Education - (programme)
24.	Preshama Mondal	Student (ug - 1st Sem)	Bengali - (programme)
25.	Nupur Bhui	Student (ug - 1st sem)	Pol science - (programme)
26.	Sima Pal	Student (ug - 1st Sem)	Pol Science - (programme)
27.	Sibani Mukherjee	Student (ug - 1st Sem)	Bengali - (programme)
28.	Sonali Smit	Student (ug - 1st Sem)	Pol Science (programme)
29.	Beauti Guin	Student (ug - 1st Sem)	Pol. Science (programme)
30.	Priyanka Sen.	Students (Ug - 1st Sem)	Pol. Science (programme)
31.	Akash Banerjee	Student (Ug - 1st Sem)	Pol. Science (programme)
32.	Akita Chatterjee	Student (Ug - 1st Sem)	Education (programme)
33.	Sk Samir Ahi	Student (Ug - 1st Sem)	Pol. Science (programme)
34.	Jeta Bagdi	Student (Ug - 1st Sem)	English Hons
35.	Maimida Roy	Student (Ug - 1st sem)	Pol. science (Hons)
36.	Dipak Das.	Student (Ug - 6th Sem)	History (Hons)
37.	Sourik Xey.	Student (Ug - 1st sem)	Education (programme)
38.	abano uui	student (Ug - 1st sem)	Pol. science (programme)
39.	Sudeshna Samanta	student (Ug - 1st sem)	Zoology honours
40.	Soujata Guin.	Student (Ug - 1st - sem)	Zoology honours







# Mentoring Format



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name \_\_\_\_\_

Designation \_\_\_\_\_

Department \_\_\_\_\_

Period of Mentoring \_\_\_\_\_

### B) Information of Mentee

Name \_\_\_\_\_

Course \_\_\_\_\_

Year of admission \_\_\_\_\_

Student ID \_\_\_\_\_

Name of Hostel (if any) \_\_\_\_\_

Scholarship \_\_\_\_\_

Male/Female \_\_\_\_\_ Category: \_\_\_\_\_ Date of birth: \_\_\_\_\_

Permanent Address \_\_\_\_\_

Mob. No. \_\_\_\_\_ Email \_\_\_\_\_

Name of Father \_\_\_\_\_

Name of Mother \_\_\_\_\_

Name of Guardian \_\_\_\_\_

Mob. No. of Guardian \_\_\_\_\_

Area of Interests / Special Skill: \_\_\_\_\_



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I								
	After Review							
II								
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

Signature of the Mentor

\*\*\* (Please add extra sheet if needed)



# Mentoring Register



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prof. Anindita Ban  
 Designation : Assistant Professor  
 Department : Zoology  
 Period of Mentoring : July, 2022

### B) Information of Mentee

Name : RAKESH DHIBAR  
 Course : UG (Zoology Hons)  
 Year of admission : 2022  
 Student ID : 22173126001  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM  
 Male/Female : Male Category: SC Date of birth: 11/08/2003  
 Permanent Address : VII+Post - Uliana, P.S - BISHRUPUR, Pin - 722122  
 Mob. No. : 9832217626 Email: rakeshdhibar17@gmail.com  
 Name of Father : DURGA DHIBAR  
 Name of Mother : SIMA DHIBAR  
 Name of Guardian : DURGA DHIBAR  
 Mob. No. of Guardian : 9832217626  
 Area of Interests / Special Skill: Football



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I					<u>Rakesh Dhibar</u>			
	After Review							
II		<u>5.5</u>			<u>Rakesh Dhibar</u>			
	After Review							
III					<u>Rakesh Dhibar</u>			
	After Review							
IV					<u>Rakesh Dhibar</u>			
	After Review							
V					<u>Rakesh Dhibar</u>			
	After Review							
VI					<u>Rakesh Dhibar</u>			
	After Review							

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Anindita Ban

Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prof. Arindita Ban.  
 Designation : Assistant Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022.

### B) Information of Mentee

Name : CHANDRIKA BARAT  
 Course : UG (Zoology Hons)  
 Year of admission : 2022  
 Student ID : 22173126002  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM  
 Male/Female : FEMALE Category: OBC-B Date of birth: 09-09-2004  
 Permanent Address : ANISHBAZAR. P.O+P.S- BISHNUPUR, PIN-722122  
 Mob. No. : 8900406308 Email: anupkumarbarat6@gmail.com.  
 Name of Father : ANUP KUMAR BARAT.  
 Name of Mother : DIPA BARAT.  
 Name of Guardian : ANUP KUMAR BARAT.  
 Mob. No. of Guardian : 9434513905  
 Area of Interests / Special Skill: Singing, Intention Designing, Gardening, Drawing.



Seme star	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		<u>7.7</u>			<u>Chandrika Barat.</u>			
	After Review							
II		<u>8.9</u>			<u>Chandrika Barat.</u>			
	After Review							
III					<u>Chandrika Barat.</u>			
	After Review							
IV					<u>Chandrika Barat.</u>			
	After Review							
V					<u>Chandrika Barat.</u>			
	After Review							
VI					<u>Chandrika Barat.</u>			
	After Review							

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Arindita Ban  
 Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prof. Anindita Ban.  
 Designation : Assistant Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022.

### B) Information of Mentee

Name : SWARNADIP SINHA BABU  
 Course : BSc (Zoology Hon.)  
 Year of admission : 2022  
 Student ID : 22173126003  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM  
 Male/Female : Male Category: General Date of birth: 12/7/2003  
 Permanent Address : Vil-Banmagan PS-Simlapal  
 Mob. No. : 9998860994 Email: SwarnadipSinhaBabu@gmail.com  
 Name of Father : Diplendu Sinha Babu  
 Name of Mother : Sagarika Sinha Babu  
 Name of Guardian : Diplendu Sinha Babu  
 Mob. No. of Guardian : 9832860994  
 Area of Interests / Special Skill: playing.



Seme ster	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		<u>5.1</u>			<u>Swarnadip Sinha Babu</u>			
	After Review							
II					<u>Swarnadip Sinha Babu</u>			
	After Review							
III					<u>Swarnadip Sinha Babu</u>			
	After Review							
IV					<u>Swarnadip Sinha Babu</u>			
	After Review							
V					<u>Swarnadip Sinha Babu</u>			
	After Review							
VI					<u>Swarnadip Sinha Babu</u>			
	After Review							

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Anindita Ban  
 Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prof. Anindita Ban.  
 Designation : Assistant Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022.

### B) Information of Mentee

Name : RIMA LAHA  
 Course : UG (Zoology Hons)  
 Year of admission : 2022  
 Student ID : 22273226005  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMEM  
 Male/Female : FEMALE Category: OBC - B Date of birth: 1.11.2003  
 Permanent Address : VILL + POST -> KUCHIAKOL PIN! - 722238  
 Mob. No. : 9609559568 Email: rimalaha90@gmail.com  
 Name of Father : RABINDRANATH LAHA  
 Name of Mother : PURNIMA LAHA  
 Name of Guardian : RABINDRANATH LAHA  
 Mob. No. of Guardian : 9609559568  
 Area of Interests / Special Skill: Drawing



Seme-ster	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		<u>7.2</u>			<u>Rima Laha</u>			
	After Review							
II		<u>6.4</u>			<u>Rima Laha</u>			
	After Review							
III					<u>Rima Laha</u>			
	After Review							
IV					<u>Rima Laha</u>			
	After Review							
V					<u>Rima Laha</u>			
	After Review				<u>Rima Laha</u>			
VI					<u>Rima Laha</u>			
	After Review							

Special notes / comments by the mentor:

\*\*\* [Please add extra sheet if needed]

Anindita Ban  
 Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prof. Anindita Ban.  
 Designation : Assistant Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022-

### B) Information of Mentee

Name : PRIYANKA PATRA.  
 Course : UG (Zoology Hons.)  
 Year of admission : 2022  
 Student ID : 22173126006  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM  
 Male/Female : Female Category: OBC-B Date of birth: 05/06/2004  
 Permanent Address : Vill+P.O - Methana; P.S - Taldangra; Dist - Bankura; Pin- 722149  
 Mob. No. : 6296349043 Email: patrapriyanka993@gmail.com  
 Name of Father : PARTOSH PATRA  
 Name of Mother : UJJWALA PATRA  
 Name of Guardian : PARTOSH PATRA  
 Mob. No. of Guardian : 6294364620  
 Area of Interests / Special Skill: Drawing; Gardening.



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		7.40			Priyanka Patra			
	After Review				†			
II					Priyanka Patra			
	After Review							
III					Priyanka Patra			
	After Review							
IV					Priyanka Patra			
	After Review							
V					Priyanka Patra			
	After Review							
VI					Priyanka Patra			
	After Review							

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Anindita Ban  
 Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Nilanjana Chatterjee.  
 Designation : Associate Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022.

### B) Information of Mentee

Name : SOUMILI BHANDARI  
 Course : UG Zoology (Hons.)  
 Year of admission : 2022  
 Student ID : 22173126011  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : \_\_\_\_\_  
 Male/Female : Female Category: S.C Date of birth: 16/01/2003  
 Permanent Address : Tilbari, PO+P.S. Bishnupur PIN: 722122  
 Mob. No. : 8348363573 Email: bhandariniya816@gmail.com  
 Name of Father : Sunil Kumar Bhandari  
 Name of Mother : Santana Bhandari  
 Name of Guardian : Sunil Kumar Bhandari  
 Mob. No. of Guardian : 9732329776  
 Area of interests / Special Skill: Cooking, Travel, Psychology



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		8.7			Soumili Bhandari			
	After Review							
II		9.0			Soumili Bhandari			
	After Review							
III					Soumili Bhandari			
	After Review							
IV					Soumili Bhandari			
	After Review							
V					Soumili Bhandari			
	After Review							
VI					Soumili Bhandari			
	After Review							

Special notes / comments by the mentor:

\*\*\* (Please add extra sheet if needed)

Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Nilanjana Chatterjee.  
 Designation : Associate Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022.

### B) Information of Mentee

Name : BHUMIKA BHUIN  
 Course : UG (Zoology Hons).  
 Year of admission : 2022  
 Student ID : 22173126015  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM  
 Male/Female :  FEMALE Category: OBC-B Date of birth: 17.05.2004  
 Permanent Address : VIII P.O= BALSI, P.S= PATRASAYER, PIN-722206  
 Mob. No. : 9093509570 Email: bhumikabhuinbantiib@gmail.com  
 Name of Father : DHIREN BHUIN  
 Name of Mother : SOMA BHUIN  
 Name of Guardian : DHIREN BHUIN  
 Mob. No. of Guardian : 9635946833  
 Area of Interests / Special Skill: Dancing, Drawing, Gardening.



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		8.0			Bhumika Bhui			
	After Review							
II		7.6			Bhumika Bhui			
	After Review							
III					Bhumika Bhui			
	After Review							
IV					Bhumika Bhui			
	After Review							
V					Bhumika Bhui			
	After Review							
VI					Bhumika Bhui			
	After Review							

Special notes / comments by the mentor:

\*\*\* (Please add extra sheet if needed)

Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Nilanjana Chatterjee.  
 Designation : Associate Professor.  
 Department : Zoology.  
 Period of Mentoring : July, 2022 -

### B) Information of Mentee

Name : SUBHECHHA NAG  
 Course : UG (Zoology Hons.)  
 Year of admission : 2022  
 Student ID : 22173126016  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : SVMCM.  
 Male/Female : Female Category: OBC-B Date of birth: 18.12.2003  
 Permanent Address : Katandher, P.O + P.S - Bishrupur, Dist - Bankura Pin-722122  
 Mob. No. : 9064816730 Email: shreini03@gmail.com  
 Name of Father : SATYA NARAYAN NAG  
 Name of Mother : SUSHAMA NAG  
 Name of Guardian : SATYA NARAYAN NAG  
 Mob. No. of Guardian : 9900340416  
 Area of Interests / Special Skill : Singing, Dancing, Sports, Acting, Mimicry, Drawing, Handicraft, Cooking



Seme Year	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		<u>8.3</u>			<u>Subhechha Nag</u>			
	<u>After Review</u>							
II		<u>9.0</u>			<u>Subhechha Nag</u>			
	<u>After Review</u>							
III					<u>Subhechha Nag</u>			
	<u>After Review</u>							
IV					<u>Subhechha Nag</u>			
	<u>After Review</u>							
V					<u>Subhechha Nag</u>			
	<u>After Review</u>							

Special notes / comments by the mentor:

Signature of the Mentor

\*\*\* (Please add extra sheet if needed)





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Prakash Kumar Santra.  
 Designation : Associate Professor  
 Department : Zoology  
 Period of Mentoring : July, 2021 - till date.

### B) Information of Mentee

Name : SANJOY RUIDAS  
 Course : UG (Zoology Honors.)  
 Year of admission : 2021  
 Student ID : 21173126004  
 Name of Hostel (if any) : \_\_\_\_\_  
 Scholarship : NATANAL SCHOLARSHIP  
 Male/Female : Male Category: S.C Date of birth: 26.04.2002  
 Permanent Address : vii-Rojasam, P.O.-Rahagam, P.S.-Joypur, PIN-722122.  
 Mob. No. : 9547963637 Email: Sanjoyruidas597@gmail.com  
 Name of Father : AMAR RUIDAS  
 Name of Mother : MOYNA RUIDAS  
 Name of Guardian : AMAR RUIDAS  
 Mob. No. of Guardian : 8370924046  
 Area of Interests / Special Skill : Guitarist, Playing, music.



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	After Review	7.45	Good.		Sanjoy Ruidas			
II	After Review				Sanjoy Ruidas			
III	After Review				Sanjoy Ruidas			
IV	After Review	5.39.	Satisfactory.		Sanjoy Ruidas			
V	After Review				Sanjoy Ruidas			
VI	After Review				Sanjoy Ruidas			

Special notes / comments by the mentor:  
Obedient & punctual in class.  
Special interest in guitar & music.

Prakash Kumar Santra  
 Signature of the Mentor

\*\*\* (Please add extra sheet if needed)



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name: Prakash Kumar Santra.  
 Designation: Associate Professor.  
 Department: Zoology  
 Period of Mentoring: July, 2021 - till date.

### B) Information of Mentee

Name: SNEHA SINGHA.  
 Course: UG (Zoology Honors.)  
 Year of admission: 2021  
 Student ID: 21173126001  
 Name of Hostel (if any): \_\_\_\_\_  
 Scholarship: Swami Vivekananda Scholarship  
 Male/Female: Female Category: UR Date of birth: 29.12.2002  
 Permanent Address: MOYNAPUR, DIST: BANKURA, WB, PIN: 722138  
 Mob. No: 9064402534 Email: Snehasingha08439@gmail.co  
 Name of Father: SWAPAN KUMAR SINGHA.  
 Name of Mother: BANDANA SINGHA.  
 Name of Guardian: SWAPAN KUMAR SINGHA.  
 Mob. No. of Guardian: 8250327280  
 Area of Interests / Special Skill: Drawing, Singing, Recitation, playing



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I		8.8	Good.					
	After Review				Sneha Singha			
II		8.8	Good.					
	After Review				Sneha Singha			
III		6.62	Satisfactory					
	After Review				Sneha Singha			
IV		5.39	Satisfactory					
	After Review				Sneha Singha			
V								
	After Review				Sneha Singha			
VI								
	After Review				Sneha Singha			

Very much obedient in class.  
 Special interest in Drawing, Singing & Playing.  
 Special notes / comments by the mentor

Prakash Kumar Santra.  
 Signature of the Mentor

\*\*\* (Please add extra sheet if needed)





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Sambashya Suv  
 Designation : Assistant Professor  
 Department : Botany  
 Period of Mentoring : 2023-2024

### B) Information of Mentee

Name : POULAMI GHOSH  
 Course : PG (Botany)  
 Year of admission : 2022-2023  
 Student ID : 22172013010  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM (K3)  
 Male/Female : Female Category: Gen Date of birth: 12/11/1999  
 Permanent Address : Kendua dihi, Bhakat Para, Bankura.  
 Mob. No. : 7799311863 Email: ghoshpoulami29@gmail.com  
 Name of Father : ARUMAY GHOSH  
 Name of Mother : SARASWATI GHOSH  
 Name of Guardian : ARUMAY GHOSH  
 Mob. No. of Guardian : 9749712201  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	165/250	2023	Seminar was not upto mark		Poulami Ghosh		2023	
	After Review							
II	146/250	2023	Faced difficulty in Proctored		Poulami Ghosh		2023	
	After Review							
III					Poulami Ghosh			
	After Review							
IV					Poulami Ghosh			
	After Review							
V								
	After Review							
VI								
	After Review							

The problems encountered by the candidate has been addressed  
 Special notes / comments by the mentor:

Signature of the Mentor

\*\*\* (Please add extra sheet if needed)





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Sambashya Suresh  
 Designation : Assistant Professor  
 Department : Botany  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : RIYA DHUA  
 Course : BG (BOTANY)  
 Year of admission : 2022-2023  
 Student ID : 22173013012  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM (K)  
 Male/Female : FEMALE Category: GEN Date of birth: 06-07-1997  
 Permanent Address : KETHARDANGA, BANKURA  
 Mob. No. : 9907707804 Email: riyadhua.bankura@gmail.com  
 Name of Father : SAMIR DHUA  
 Name of Mother : SOVA DHUA  
 Name of Guardian : SAMIR DHUA  
 Mob. No. of Guardian : 9933196282  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	143/250	2023	The session was very short		Riya Dhua		2023	
	After Review							
II	152/250	2023	Waiting day exam has not up to the mark		Riya Dhua		2023	
	After Review							
III					Riya Dhua			
	After Review							
IV					Riya Dhua			
	After Review							
V								
	After Review							
VI								
	After Review							

The issues faced by the candidate has been addressed.  
 Special notes / comments by the mentor

Suresh  
 Signature of the Mentor

\*\*\* (Please add extra sheet if needed)



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Sambashya San  
 Designation : Assistant Professor  
 Department : Botany  
 Period of Mentoring : 2022-24

### B) Information of Mentee

Name : PRIYA DEY  
 Course : PG (BOTANY)  
 Year of admission : 2022-2023  
 Student ID : 22173013011  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM (K3)  
 Male/Female : Female Category: General Date of birth: 27.10.2001  
 Permanent Address : Nandan, Akhbasal, Bankura  
 Mob. No. : 8001431399 Email: Priyadey27102001@gmail.com  
 Name of Father : Lt Prangobinda Dey  
 Name of Mother : Sulekha Dey  
 Name of Guardian : Sulekha Dey  
 Mob. No. of Guardian : 7076029861  
 Area of Interests / Special Skill : NA



Seme star	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	179/250	2023	Poor seminar presentation and writing skill.		Priya Dey			
	After Review	2						
II	148/250	2023	Waiting up to the mark.		Priya Dey			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

The issues has been addressed.

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Sun  
Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Shyamal Kanta Mallick  
 Designation : Associate Professor  
 Department : Botany  
 Period of Mentoring : 2023-2024

### B) Information of Mentee

Name : PUJA CHOWDHURY  
 Course : PG (BOTANY)  
 Year of admission : 2022-2023  
 Student ID : 22173013004  
 Name of Hostel (if any) : NA  
 Scholarship : SVMEM (K3)  
 Male/Female : FEMALE Category: GENERAL Date of birth: 29/11/2001  
 Permanent Address : KHARDANOLA, BISHNUPUR, BANKURA  
 Mob. No. : 8637560102 Email: Pujachowd@gmail.com  
 Name of Father : LATE SANKAR CHOWDHURY  
 Name of Mother : RUPA CHOWDHURY  
 Name of Guardian : RUPA CHOWDHURY  
 Mob. No. of Guardian : 9434627727  
 Area of Interests / Special Skill: MUSIC



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	<u>175/250</u>	<u>2023</u>			<u>Pujachowdhury</u>			
	After Review							
II	<u>187/250</u>	<u>2023</u>			<u>Pujachowdhury</u>			
	After Review							
III					<u>Pujachowdhury</u>			
	After Review							
IV					<u>Pujachowdhury</u>			
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor

\*\*\* (Please add extra sheet if needed)

Puri  
Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Shyamal Kanti Mallick  
 Designation : Associate professor  
 Department : Botany  
 Period of Mentoring : 2023-2024

### B) Information of Mentee

Name : SANGITA DEY  
 Course : PG (BOTANY)  
 Year of admission : 2022-2023  
 Student ID : 22173013006  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM (K3)  
 Male/Female : FEMALE Category: OBC-B Date of birth: 19/07/1998  
 Permanent Address : RAGHUNATH SAYER, BISHNUPUR, BANKURA  
 Mob. No. : 8391080758 Email: sangitadey567@gmail.com  
 Name of Father : SUBODH DEY  
 Name of Mother : NILIMA DEY  
 Name of Guardian : SUBODH DEY  
 Mob. No. of Guardian : 9064175017  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	179/250	2023			Sangita Dey			
	After Review							
II	148/250	2023			Sangita Dey.			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

— (Please add extra sheet if needed)

  
Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Sr. Sambashya Das  
 Designation : Assistant Professor  
 Department : Botany  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : Nirmalya Chakraborty  
 Course : PG (Botany)  
 Year of admission : 2022-2023  
 Student ID : 22173013013  
 Name of Hostel (if any) : NA  
 Scholarship : NA  
 Male/Female : Male Category: General Date of birth: 29.06.1998  
 Permanent Address : Biharda, Jaldanga, Bankura, 722152  
 Mob. No. : 9933933676 Email: Silliana.nirmalya2023@gmail.com  
 Name of Father : Satit Kumar Chakraborty  
 Name of Mother : Purnima Chakraborty  
 Name of Guardian : Satit Kumar Chakraborty  
 Mob. No. of Guardian : 9939525692  
 Area of Interests / Special Skill: Sports



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	150/250	2023	Poor attendance and poor seminar		Nirmalya Chakraborty			
	After Review							
II	159/250	2023	Palaeontology not upto the mark		Nirmalya Chakraborty			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

The issues has been taken into Special notes / comments by the mentor: consideration.  
 — Please add extra sheet if needed!

[Signature]  
 Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : DR. SARYASOCHT CHATTERJEE  
 Designation : ASSISTANT PROFESSOR  
 Department : BOTANY  
 Period of Mentoring : 2023-24.

### B) Information of Mentee

Name : Rimpa paul  
 Course : P.G.(Botany)  
 Year of admission : 2022  
 Student ID : 22173013008  
 Name of Hostel (if any) : Na  
 Scholarship : SVMCM (K2)  
 Male/Female : Female Category: General Date of birth: 11/03/2001  
 Permanent Address : Vill- Bhimara, P.O- Harimara, P.S- Taldangra, dist- Bankura, Pin- 722000  
 Mob. No. : 8116112204 Email: rpaul.bhimara@gmail.com  
 Name of Father : Dasharath paul  
 Name of Mother : Sushama paul  
 Name of Guardian : Dasharath paul  
 Mob. No. of Guardian : 8101498796  
 Area of Interests / Special Skill: Na



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	162/250	2023	Seminar and assignment not upto the mark		Rimpa paul			
	After Review							
II	149/250	2023	Difficulties in Polyploidy and Molecular Biology.		Rimpa paul			
	After Review							
III					Rimpa paul			
	After Review							
IV					Rimpa paul			
	After Review							
V								
	After Review							
VI								
	After Review							

S. Chatterjee  
 Signature of the Mentor

Special notes / comments by the mentor:  
 (Please add extra sheet if needed)





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : DR. SARYASACHI CHATTERJEE  
 Designation : ASSISTANT PROFESSOR  
 Department : BOTANY  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : PIYALI SINGHAMAHAPATRA  
 Course : P.G. (BOTANY)  
 Year of admission : 2022  
 Student ID : 22173013009  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM (K3)  
 Male/Female : Female Category: General Date of birth: 08/04/2001  
 Permanent Address : JORISHA, SIMLAPAL, BANKURA  
 Mob. No. : 9382198952 Email: PiyaliS910@gmail.com  
 Name of Father : APURBA SINGHAMAHAPATRA  
 Name of Mother : KABITA SINGHAMAHAPATRA  
 Name of Guardian : APURBA SINGHAMAHAPATRA  
 Mob. No. of Guardian : 9135206630  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	171/250		Trouble in understanding class.		Piyali Singhamahapatra			
	After Review							
II	174/250		Seminar not upon marks. Difficulty in preparing paper.		Piyali Singhamahapatra			
	After Review							
III					Piyali Singhamahapatra			
	After Review							
IV					Piyali Singhamahapatra			
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

--- Please add extra sheet if needed!

*Sabujin*  
Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : DR. SABYASACHI CHATTERJEE  
 Designation : ASSISTANT PROFESSOR  
 Department : BOTANY  
 Period of Mentoring : 2023-24.

### B) Information of Mentee

Name : SNEHA DUTTA  
 Course : PG BOTANY  
 Year of admission : 2022  
 Student ID : 22173013007  
 Name of Hostel (if any) : NA  
 Scholarship : SVMGM (K<sub>2</sub>)  
 Male/Female : FEMALE Category: GENERAL Date of birth: 06/10/2001  
 Permanent Address : VILL+PO → MURAKATA .P.S → ONDA Dist → BANKURA  
 Mob. No. : 9372820209 Email: dsneha765@gmail.com  
 Name of Father : SRIKANTA DUTTA  
 Name of Mother : MANGALA DUTTA  
 Name of Guardian : SRIKANTA DUTTA  
 Mob. No. of Guardian : 9474047982  
 Area of Interests / Special Skill: DANCE



Seme stor	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	<u>191/250</u> After Review	<u>2023</u>	<u>Poor quality seminar</u>		<u>Sneha Dutta</u>			
II	<u>117/250</u> After Review	<u>2023</u>	<u>Difficulty in understanding Biochemistry</u>		<u>Sneha Dutta</u>			
III	After Review				<u>Sneha Dutta</u>			
IV	After Review				<u>Sneha Dutta</u>			
V	After Review							
VI	After Review							

Special notes / comments by the mentor

(Please add extra sheet if needed)

rebaty  
Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : DR. SABYASACHI CHATTERJEE  
 Designation : ASSISTANT PROFESSOR  
 Department : BOTANY  
 Period of Mentoring : 2023-2024

### B) Information of Mentee

Name : ANIRBAN MONDAL  
 Course : PG-BOTANY  
 Year of admission : 2022-23  
 Student ID : 22173013019  
 Name of Hostel (if any) : NA  
 Scholarship : SUMCM  
 Male/Female : MALE Category: GENERAL Date of birth: 22/09/2000  
 Permanent Address : VILL-JALITHA, P.O.+P.S- KOTULPUL, DIST-BANKURA  
 Mob. No. : 9799209569 Email: anirban722191@gmail.com  
 Name of Father : KANAI LAL MONDAL  
 Name of Mother : STIPA MONDAL  
 Name of Guardian : KANAI LAL MONDAL  
 Mob. No. of Guardian : 9439025249  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	148/250	2023	Poor attendance		Anirban Mondal			
	After Review							
II	136/250	2023	Poor attendance Poor marks in Biochemistry		Anirban Mondal			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor

(Please add extra sheet if needed)

*Vebettijr*  
 Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : ASISH MANDAL  
 Designation : Associate Professor  
 Department : Botany  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : SOURMEN GORAI  
 Course : PG-BOTANY  
 Year of admission : 2022  
 Student ID : 22173013002  
 Name of Hostel (if any) : NA  
 Scholarship : SVMCM  
 Male/Female : MALE Category: ABC-B Date of birth: 04/11/2000  
 Permanent Address : MOYRABANDH, JAMATPARA, GANKUSA  
 Mob. No. : 8906771153 Email: Sourmen.gorai427@gmail.com  
 Name of Father : PATIT PABAN GORAI  
 Name of Mother : MITHU GORAI  
 Name of Guardian : PATIT PABAN GORAI  
 Mob. No. of Guardian : 9832142284  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	173/250	2023	Improving better.		<u>Sourmen Gorai</u>			
	After Review							
II	154/250	2023	Spent time for dissertation		<u>Sourmen Gorai</u>			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Asish Mandal

Signature of the Mentor

Special notes / comments by the mentor:

(Please add extra sheet if needed)



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : ASISH MAJDAAL  
 Designation : Associate Professor  
 Department : Botany  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : SOUMYABRATA PANDA  
 Course : PG-BOTANY  
 Year of admission : 2022  
 Student ID : 22173013003  
 Name of Hostel (if any) : NO  
 Scholarship : SVMCM  
 Male/Female : Male Category: GENERAL Date of birth: 26/07/2002  
 Permanent Address : VILL+POST-KADMA, TALDANGERIT, BANKURA, 722151  
 Mob. No. : 7679941862 Email: Soumyabrata.panda002@gmail  
 Name of Father : MRINAL KANTI PANDA  
 Name of Mother : JUPRIYA PANDA  
 Name of Guardian : MRINAL KANTI PANDA  
 Mob. No. of Guardian : 9547610857  
 Area of Interests / Special Skill: \_\_\_\_\_



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	159/250	2023	Hard working		Soumyabrata Panda			
	After Review							
II	161/250	2023	Regular note or log		Soumyabrata Panda			
	After Review							
III					Soumyabrata Panda			
	After Review							
IV					Soumyabrata Panda			
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

— (Please add extra sheet if needed)

Asish Majdaal  
Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

ASISH MANDAL

Name : \_\_\_\_\_  
 Designation : Associate Professor  
 Department : Botany  
 Period of Mentoring : 2023-24

### B) Information of Mentee

Name : SHAMPA RUIDAS  
 Course : B.Sc  
 Year of admission : 2022  
 Student ID : VID 173173113004 COLLID: 1172201261  
 Name of Hostel (if any) : Nabedita Girls Hostel  
 Scholarship : Swami Vivekananda Scholarship  
 Male/Female : Female Category Sc Date of birth: 10/11/2003  
 Permanent Address : vill-Jogannathpur, P.O-Hajura, PS-Joypur Dist-Bankura  
 Mob. No. : 9992127896 Email: ruidasshampa19@gmail.com  
 Name of Father : Suapan Ruidas  
 Name of Mother : Anatima Ruidas  
 Name of Guardian : Suapan Ruidas  
 Mob. No. of Guardian : 8768559231  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	119/200	2023	Regretful less		Shampa Ruidas			
	After Review							
II	128/200	2023	Try to improve		Shampa Ruidas			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

\*\*\* (Please add extra sheet if needed)

*Asish Mandal*

Signature of the Mentor





# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Shyamal Kranti Mallick  
 Designation : Associate prof. of Botany  
 Department : Dept. of Botany  
 Period of Mentoring : 2022-23

### B) Information of Mentee

Name : Priyanka Pandit  
 Course : B.Sc  
 Year of admission : 2022  
 Student ID : UID-22173113001 College ID-1172200219  
 Name of Hostel (if any) : NA  
 Scholarship : Swami Vivekananda Merit cum scholarship  
 Male/Female : Female Category: General Date of birth: 17/4/2003  
 Permanent Address : Dalmadal Road, Bishnupur, Bankura  
 Mob. No. : 9883695670 Email: priyanka17pandit@gmail.com  
 Name of Father : Pradip Pandit  
 Name of Mother : Lili Pandit  
 Name of Guardian : Pradip Pandit  
 Mob. No. of Guardian : 9474050460  
 Area of Interests / Special Skill: NA



Seme ster	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	125/200	2023			Priyanka Pandit			
	After Review							
II	122/200	2023			Priyanka Pandit			
	After Review							
III								
	After Review							
IV								
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

\*\*\* (Please add extra sheet if needed)

  
Signature of the Mentor



# RAMANANDA COLLEGE

## FORMAT FOR MENTORING

### A) Information of Mentor

Name : Dr. Shyamal Kanti Mallick  
 Designation : Associate professor  
 Department : Department of Botany  
 Period of Mentoring : 2022-23

### B) Information of Mentee

Name : Anpita Ganguli  
 Course : B.Sc  
 Year of admission : 2021  
 Student ID : UID=21173113006 College ID = 1172101847  
 Name of Hostel (if any) : NA  
 Scholarship : NA  
 Male/Female : Female Category: General Date of birth: 24/10/2003  
 Permanent Address : Panasia, Basubati, Joyputa, Bankura  
 Mob. No. : 9083030048 Email: saminanganguli4@gmail.com  
 Name of Father : Samiran Ganguli  
 Name of Mother : Sonali Ganguli  
 Name of Guardian : Samiran Ganguli  
 Mob. No. of Guardian : 9547515960  
 Area of Interests / Special Skill: NA



Semester	Marks Obtained in		Comment on Learning Attitude	Mentor-Mentee Meet		Hours Spent for Mentoring	Year of Passing	Placed after Completion
	IA	Sem End Exam (Year)		Date:	Signature (Mentee)			
I	179/200	2022			Anpita Ganguli			
	After Review							
II	181/200	2022			Anpita Ganguli			
	After Review							
III	182/250	2023			Anpita Ganguli			
	After Review							
IV	208/250	2023			Anpita Ganguli			
	After Review							
V								
	After Review							
VI								
	After Review							

Special notes / comments by the mentor:

\*\*\* (Please add extra sheet if needed)

  
 Signature of the Mentor

# Mentoring Report



## Mentor and mentee list

**Department:** Geography

**Name of the mentor:** Smita Banerjee

Name of the mentee	Semester	Hons/Programme
PRABIR HEMBRAM	1st and 2nd	Hons
SONALI MAKUR		
MOUSUMI LOHAR		
SOBITA PATRA		
ARGHYASRI BARIK		
BEAUTY KARMAKAR		
PAYEL GHOSH		
JOYDIP MAJHI		
MEGHA CHOUDHURY		
BIPASA RUIDAS		
SAHINUR KHATUN		
ANJALI PAL		
ATANU ROY		
ARPITA PAL		
NASRIN SULTANA		
DEBDAS MONDAL		
PUJA NANDI		
SATHI KARAK		
JIT KUMAR MISRA		
ARNAB ROY		
SATHI MAHANTA		
MEGHA PANJA		
MAHATI SARKAR		
BRISTI KARMAKAR		
RIYA RAJAK		
LISHA PARAMANIK		
CHINTAHARAN PAL		
NEHA DEY		
SAMADRITA MAHANTA		
PRIYATOSH MAKUR		
SANJOY LOHAR		
SUBHADIP LOHAR		
BEAUTY MANDAL		

*Smita Banerjee*  
19/06/24

## Mentor and mentee list

**Department:** Geography

**Name of the mentor:** Sandipan Ghosh

Name of the mentee	Semester	Hons/Programme
RAMESH ROY	5 <sup>th</sup> and 6 <sup>th</sup>	Hons
SAINIK BAURI		Hons
DIPESH SAHA		Hons
SUMAN DEY		Hons
SOUVIK MANNA		Hons
RANA CHAKRABARTY		Hons
ISHIKA HALDER		Hons
CHAITALI BARAT		Hons
REEKA DUTTA		Hons
SINDHIYA DAS		Hons
RACHANA KARMAKAR		Hons
SOUMI KESH		Hons
ABHINANDAN BANERJEE		Hons
RIYA DE		Hons
PALLABI MIDDYA		Hons
CHANDRIKA BETAL		Hons
MAHAMUD HASSAN MANDAL		Hons
AMBIKA LOHAR		Hons
NEHA NAG	Hons	

*S. Ghosh*  
19/06/21

## Mentor and mentee list

**Department:** Geography

**Name of the mentor:** Rajesh Kumar Guin

Name of the mentee	Semester	Hons/Programme
SUROVI DEY	3rd and 4th	Hons
DEBAPRASAD RAKSHIT		
SAYANDIP SINDAL		
RAMENDRA NATH SARE		
SUBHANKAR MAHATA		
SEULI MAJI		
PRIYANKA KISKU		
ANTARA DUTTA		
MISTU DEBGHARIA		
SNEHA DEY		
JYOTILAL KISKU		
PRITAM SANTRA		
POULAME SAMANTA		
RAKHI SAHA		
JASIMUDDIN MONDA		
SONAM GHATAK		
ANANYA MUKHERJEE		
DWIPKUL BALA		



## MENTOR AND MENTEE LIST

### DEPARTMENT: CHEMISTRY

Name of the Mentor: Dr. Sujit Kumar Dutta

Session	Name of the Mentee	Semester	Hons/ Prog. / PG
2022-23	Sonali Ruidas	I and II	Hons
	Debanjan Banerjee	I and II	Hons
	Pranesh Santra	V and VI	Hons

Name of the Mentor: Dr. Ajay Kumar Manna

Session	Name of the Mentee	Semester	Hons/ Prog. / PG
2022-23	Papai Pati	I and II	Hons
	Reshmi Pal	I and II	Hons

Name of the Mentor: Dr. Samir Kumar Maji

Session	Name of the Mentee	Semester	Hons/ Prog. / PG
2022-23	Manu Dhak	I and II	Hons
	Sk Mainuddin	V and VI	Hons

Name of the Mentor: Dr. Chiranjit Pal

Session	Name of the Mentee	Semester	Hons/ Prog. / PG
2022-23	Jaysree Nandi	I and II	Hons
	Joydev Rajak	V and VI	Hons
	Suprava Katari	V and VI	Hons

Name of the Mentor: Dr. Shyamashis Das

Session	Name of the Mentee	Semester	Hons/ Prog. / PG
2022-23	Arup Garai	I and II	Hons
	Monami Karmakar	I and II	Hons
	Sayanti Dutta	V and VI	Hons

**Department of Physics**

**Ramananda College,**

**Bishnupur, Bankura**

Mentor-mentee data for academic session 2022-23

Session	Name of Mentee	Name of Mentor	Semester	Hons/Programme
2022-23	Satyaki Maji	Dr. Rajeesh Mukherjee	III	Hons
	Soumadip Patra	Amlan Das	III	Hons
	Dinabandhu Acharya	Dr. Mrityunjoy Ghosh	V	Hons
	Raj Sen	Dr. Rajeesh Mukherjee	V	Hons
	Suman Das	Amlan Das	V	Hons
	Ahijit Ghosh	Dr. Saibal Mitra	V	Hons
	Aniket Karmakar	Dr. Amit Dey	V	Hons
	Ankan Patra	Dr. Baibaswata Bhattacharjee	V	Hons
	Subhaprasad Kar	Dr. Amit Dey	V	Hons

Amlan Das  
16/05/24

**Head**

Department of Physics  
Ramananda College  
Bishnupur, Bankura

Department of Physics  
Ramananda College  
Bishnupur, Bankura

## MENTOR AND MENTEE LIST

DEPARTMENT: Physiology

Name of the Mentor: Dr. Debanka Sekhar Misra.

SESSION	Name of the Mentee	Semester	Honours
<b>2022- 2023</b>	Chandan Chakraborty	6 <sup>th</sup>	Honours
	Piya Dutta	6 <sup>th</sup>	Honours
	Suranjana Sahu	6 <sup>th</sup>	Honours
	Mausam Saha	6 <sup>th</sup>	Honours
	Rana kar	6 <sup>th</sup>	Honours
	Arnab de	6 <sup>th</sup>	Honours

Name of the Mentor: Dr. Subhankori Prasad Chakraborty.

SESSION	Name of the Mentee	Semester	Honours
<b>2022- 2023</b>	Rohit Bisui	6 <sup>th</sup>	Honours
	Debasmita Modak	6 <sup>th</sup>	Honours
	Indrani Hazra	6 <sup>th</sup>	Honours
	Sachindra Murmu	6 <sup>th</sup>	Honours
	Mousumi Dom	6 <sup>th</sup>	Honours

Name of the Mentor: Mr. Dipak Kumar Maity:

SESSION	Name of the Mentee	Semester	Honours
<b>2022- 2023</b>	Disha Pal	2 <sup>nd</sup>	Honours
	Suman Mal	2 <sup>nd</sup>	Honours
	Tamali Pal	2 <sup>nd</sup>	Honours
	Suraj Patra	2 <sup>nd</sup>	Honours



Name of the Mentor: Mr. Saroj Ballav:

SESSION	Name of the Mentee	Semester	Honours
<b>2022</b> - <b>2023</b>	1. Tapadipta Pal	4 <sup>th</sup>	Honours
	2. Mahua Banerjee	4 <sup>th</sup>	Honours
	3. Priyanka Lohar	4 <sup>th</sup>	Honours
	4. Raky Chatterjee	4 <sup>th</sup>	Honours

Name of the Mentor: Mrs. Chaitali Kundu:

SESSION	Name of the Mentee	Semester	Honours
<b>2022-2023</b>	Pratap Saren	2 <sup>nd</sup>	Honours
	Taniska Saha	2 <sup>nd</sup>	Honours
	Priti Chakraborty	2 <sup>nd</sup>	Honours
	Anushree Mal	2 <sup>nd</sup>	Honours

Name of the Mentor: Mrs. Rudrani Mukherjee:

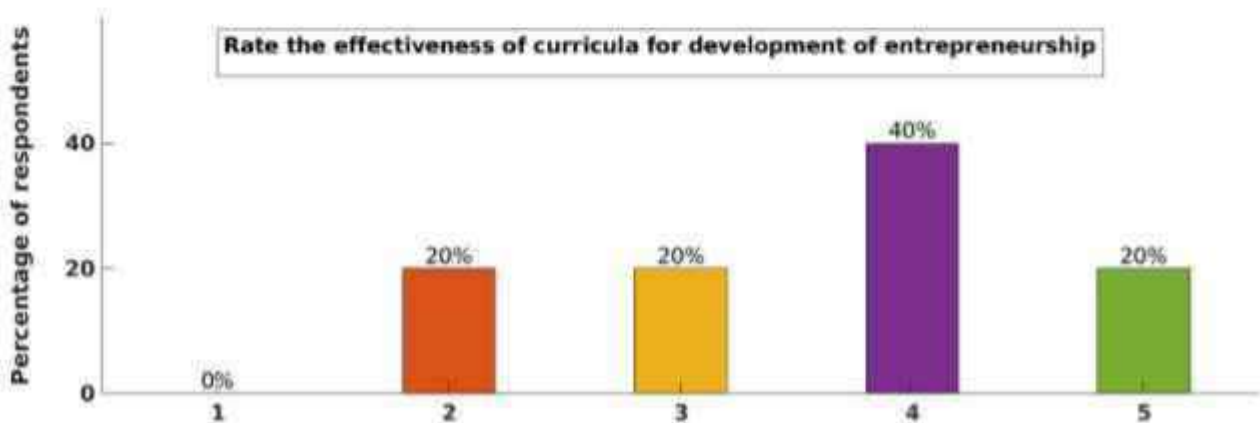
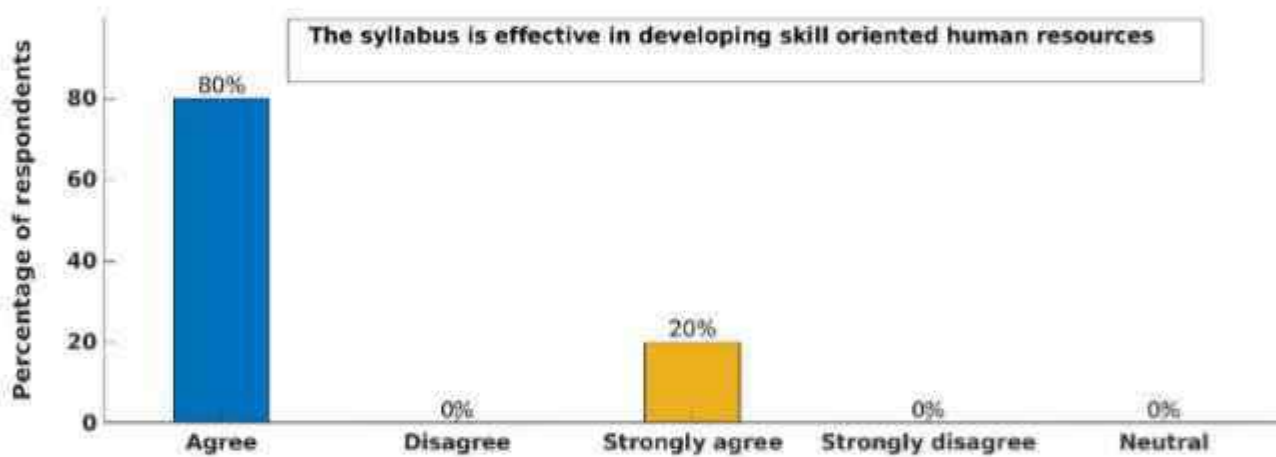
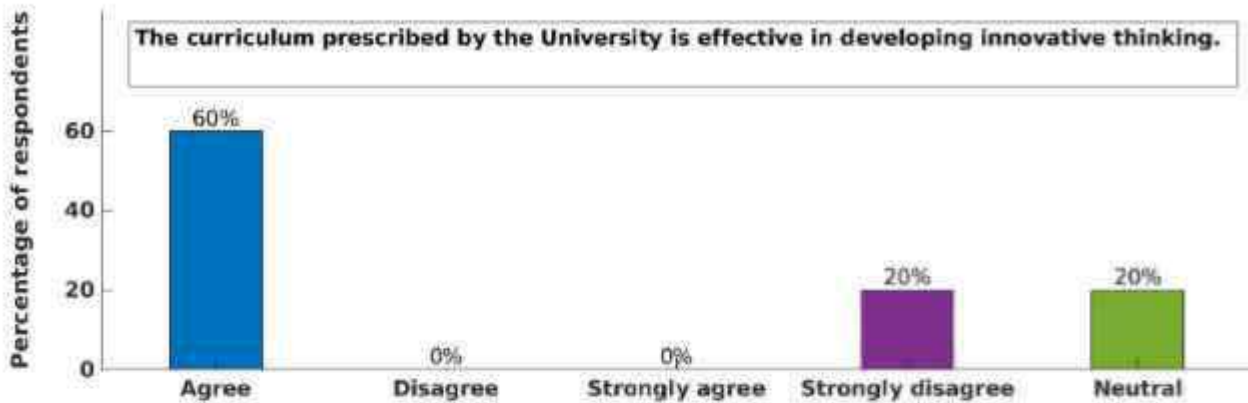
SESSION	Name of the Mentee	Semester	Honours
<b>2022</b> - <b>2023</b>	1. Laboni Dey	2 <sup>nd</sup>	Honours
	2. Nargis Khatun	2 <sup>nd</sup>	Honours
	3. Sarmistha Koley	2 <sup>nd</sup>	Honours
	4. Pratima Goral	2 <sup>nd</sup>	Honours

# Feedback on Curriculum

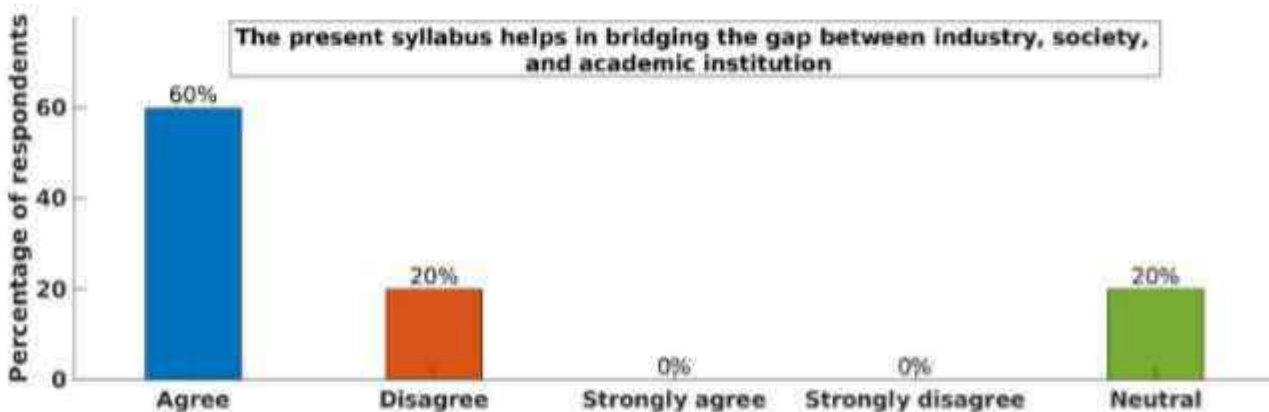
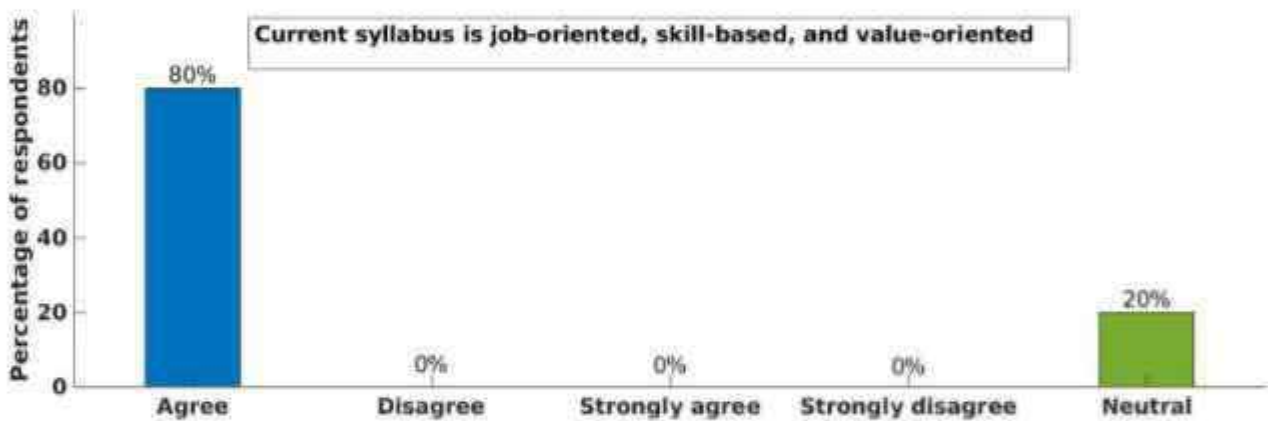
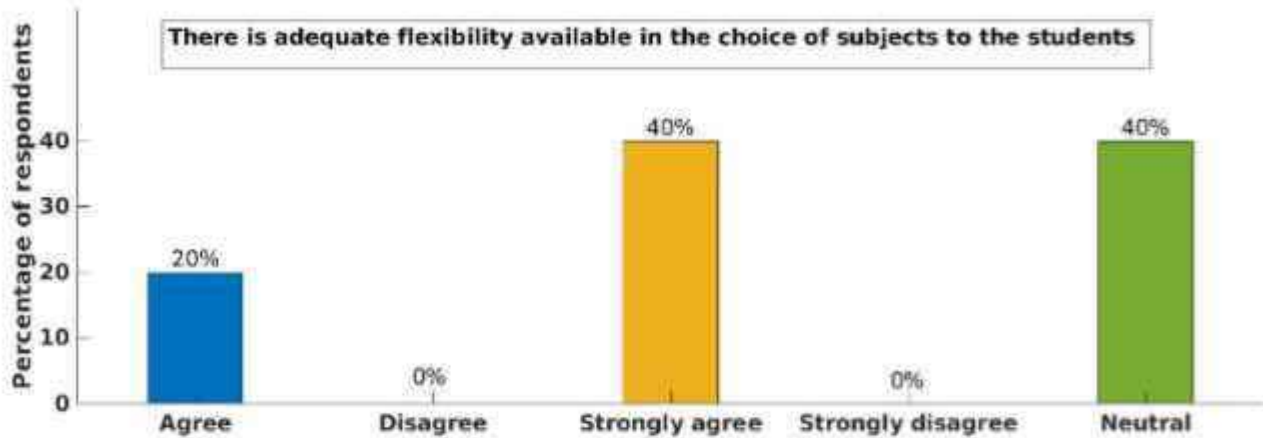
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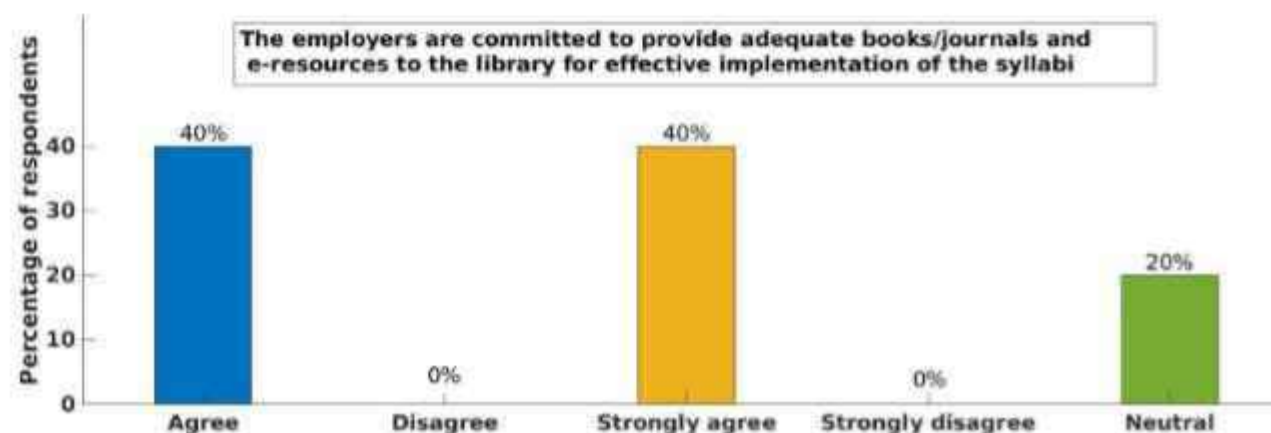
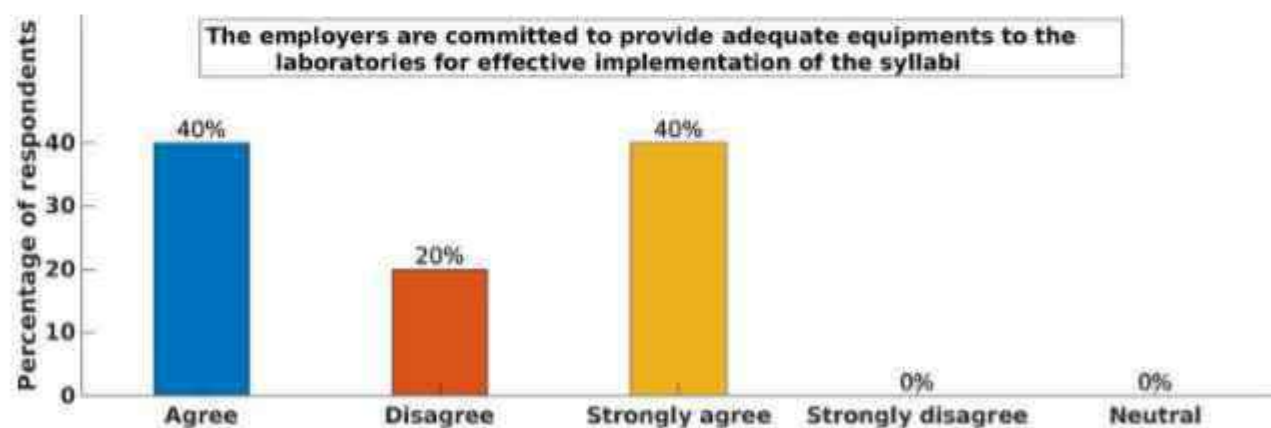
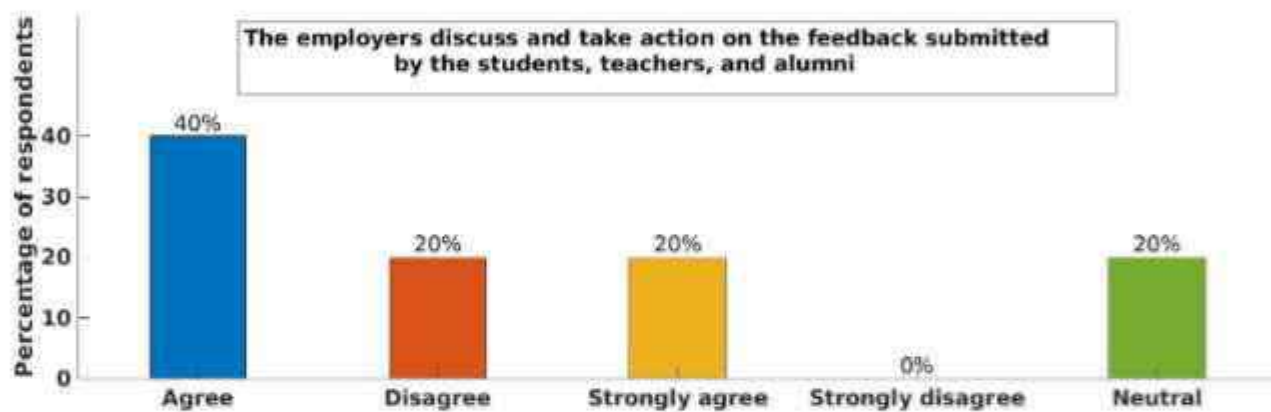
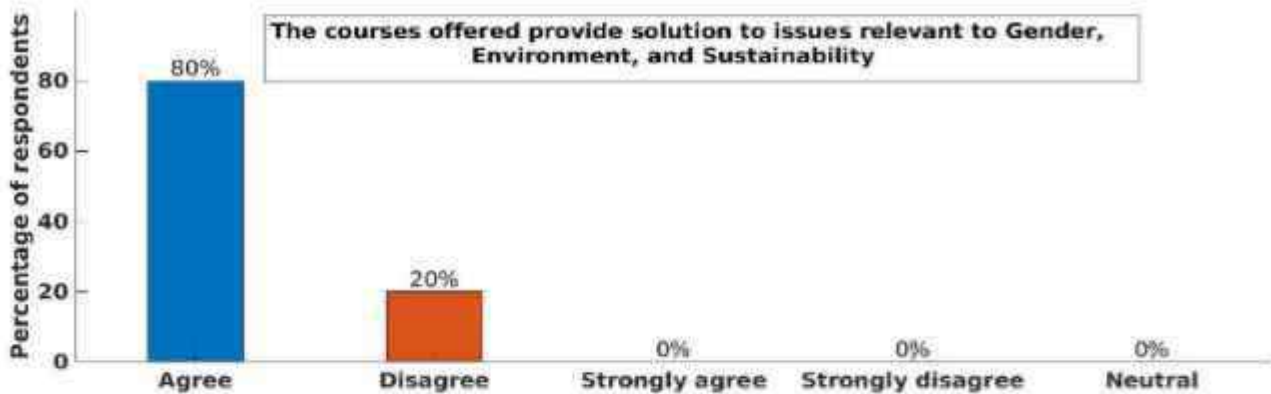
# Report on the analysis of employers' feedback on curriculum design & review 2022-2023



# Report on the analysis of employers' feedback on curriculum design & review 2022-2023

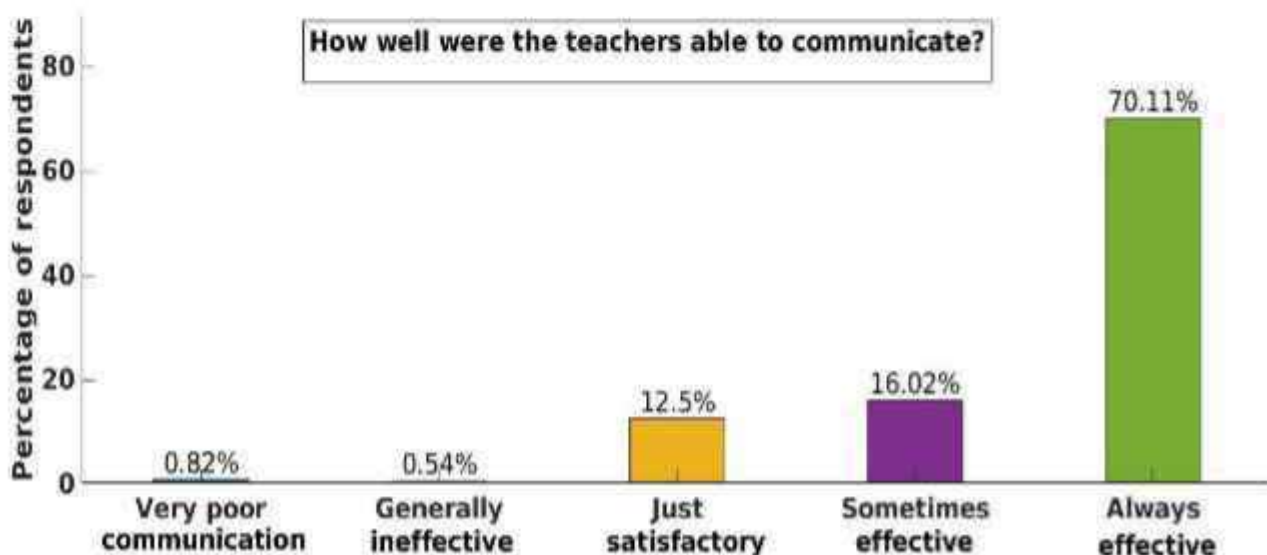
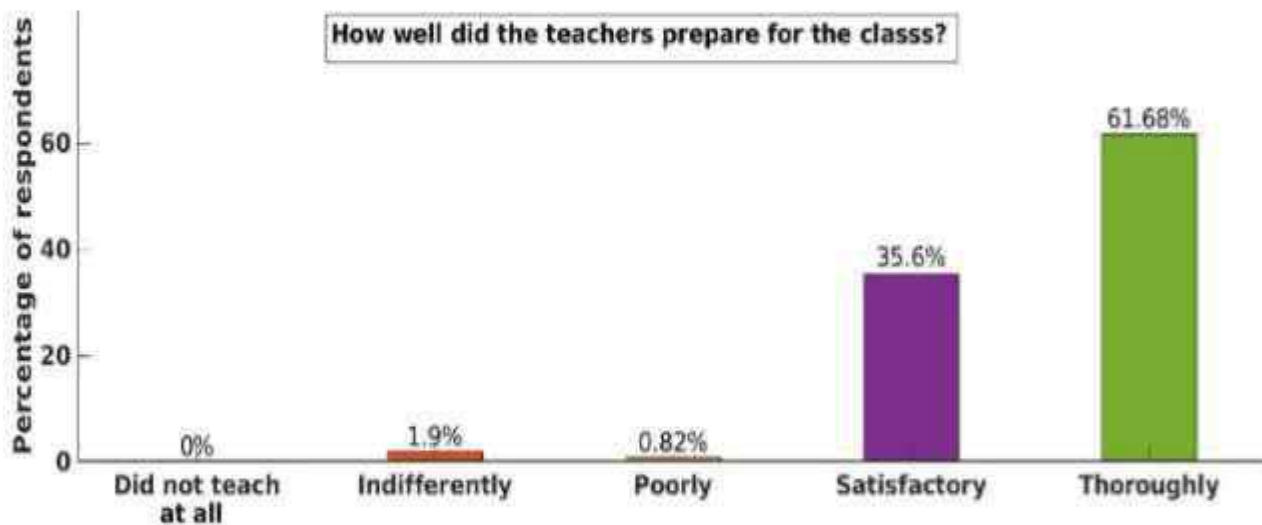
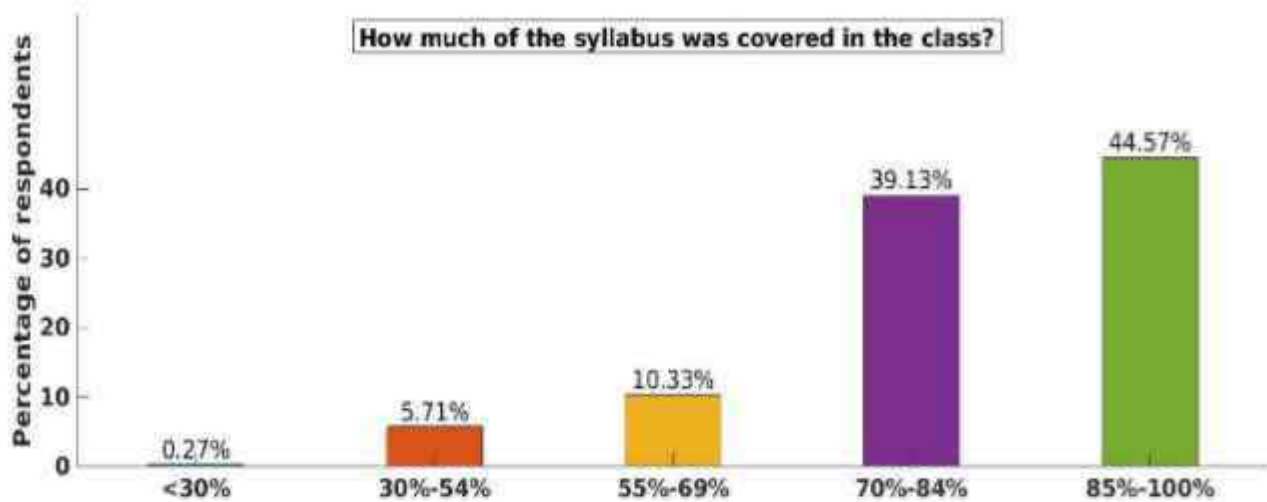


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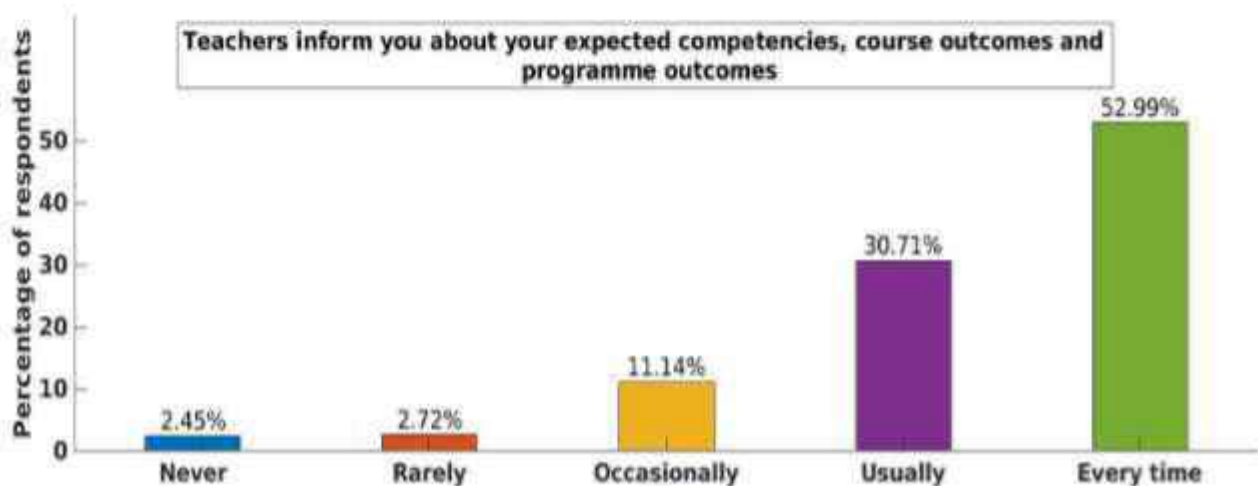
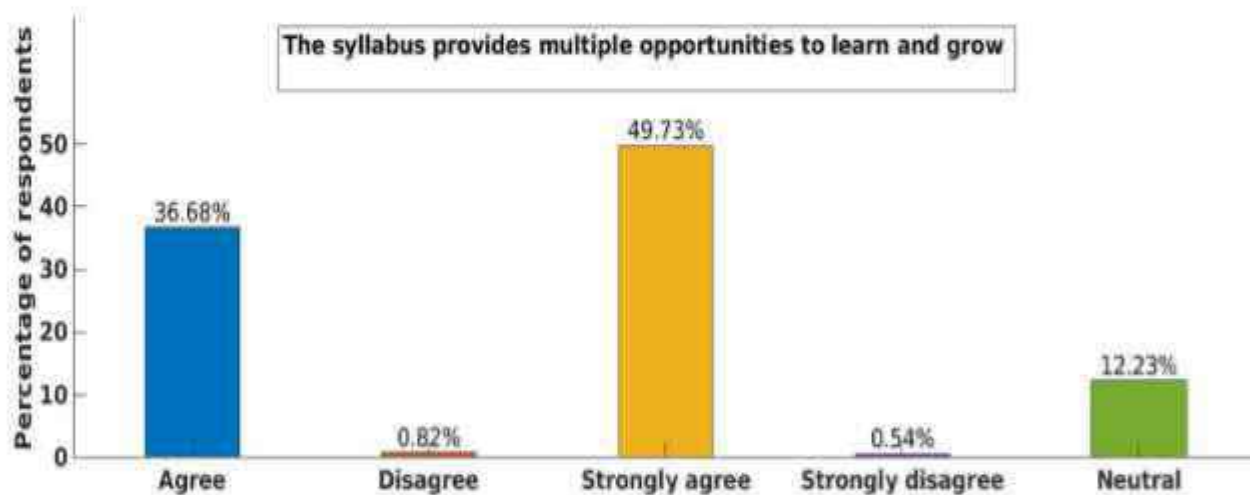
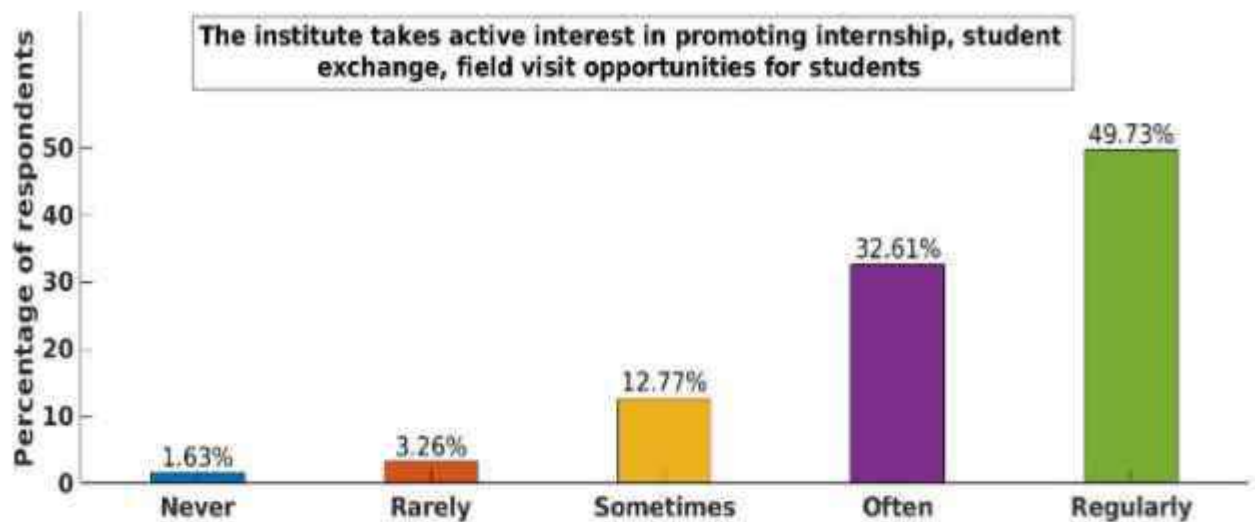




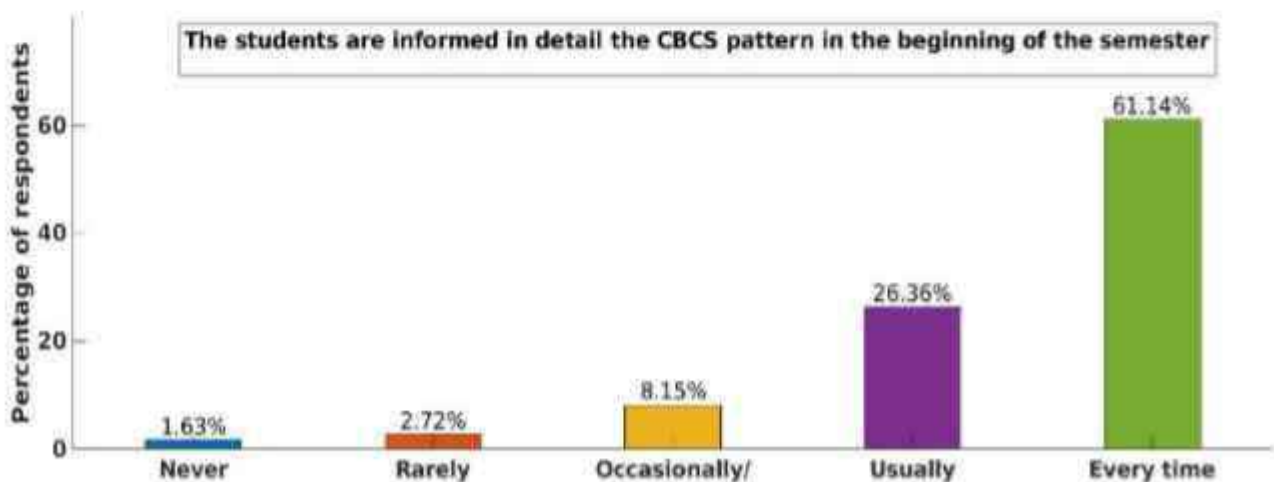
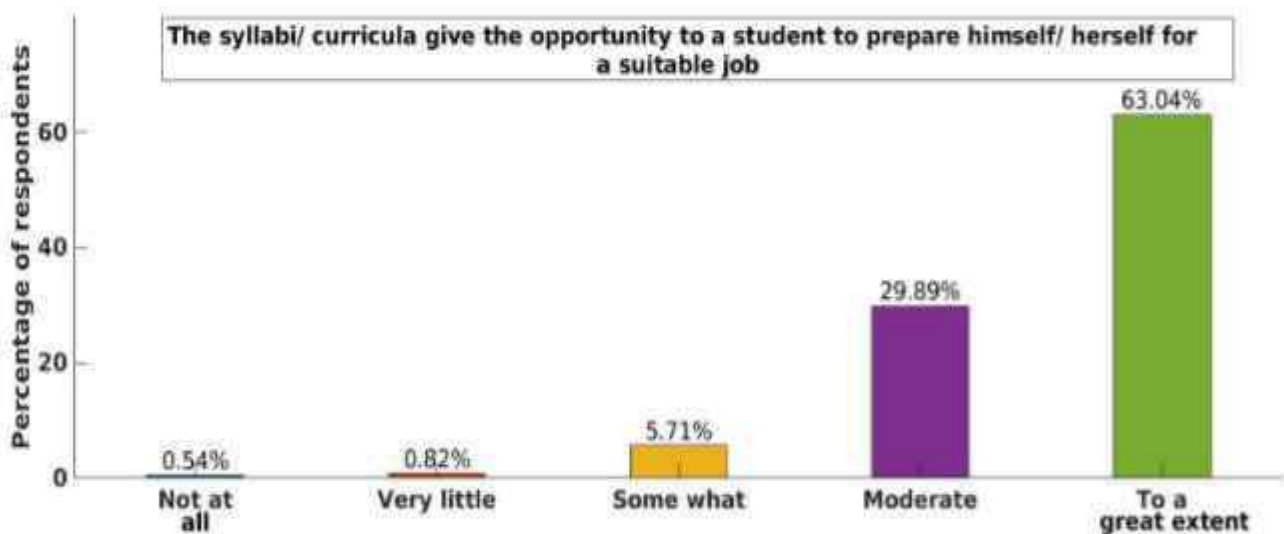
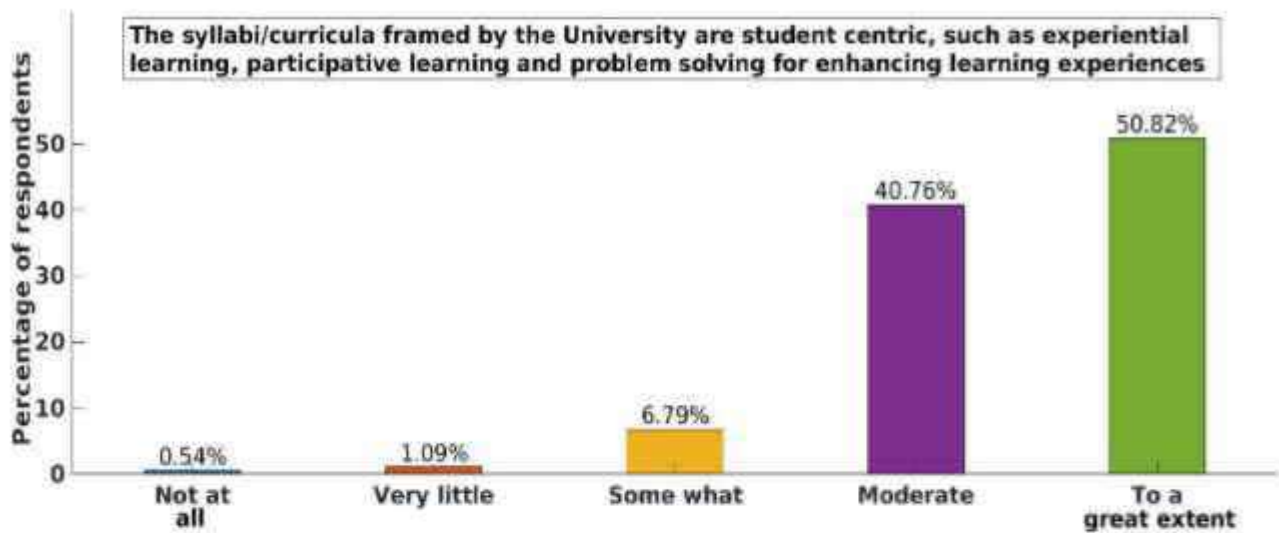
## Report on the analysis of students' feedback on curriculum design and review (2022-2023)



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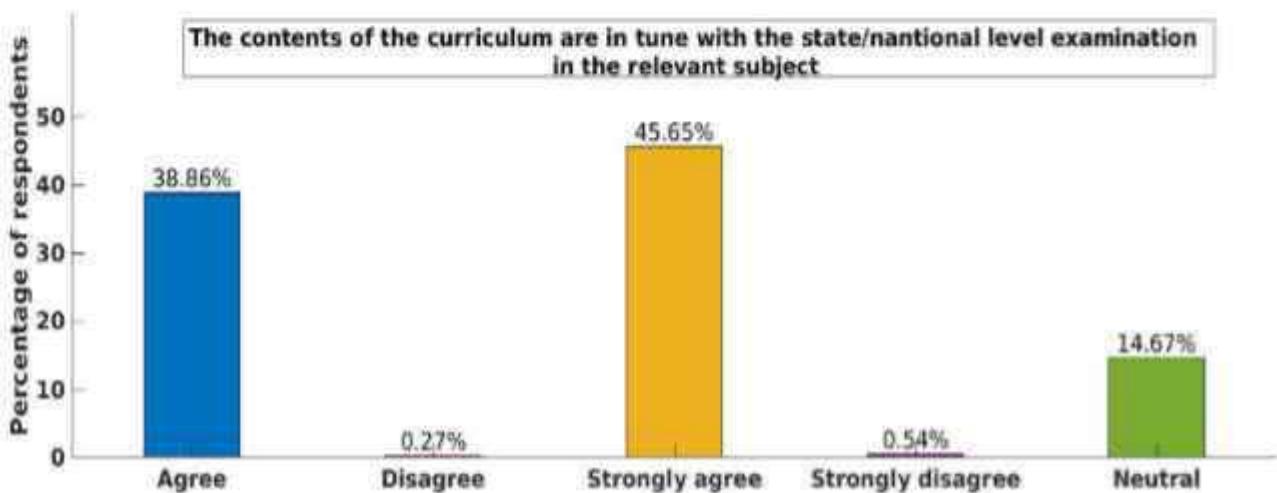
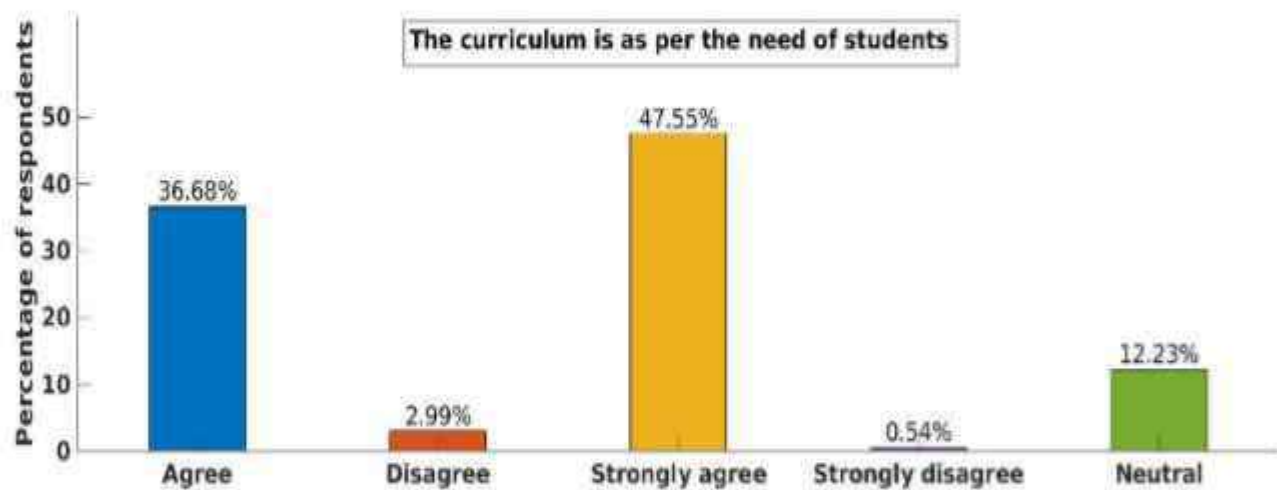
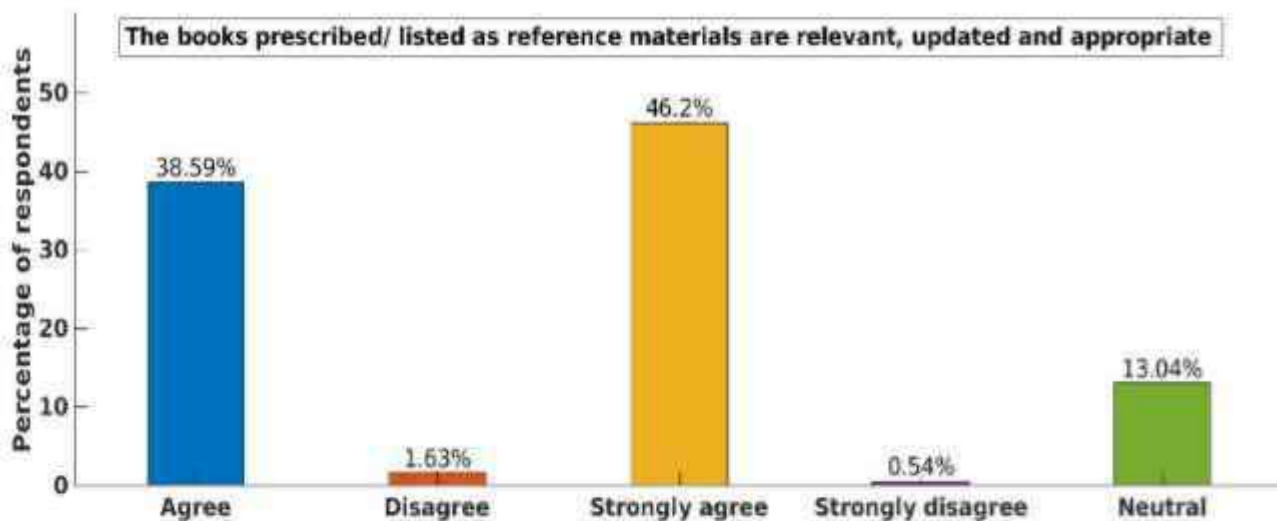


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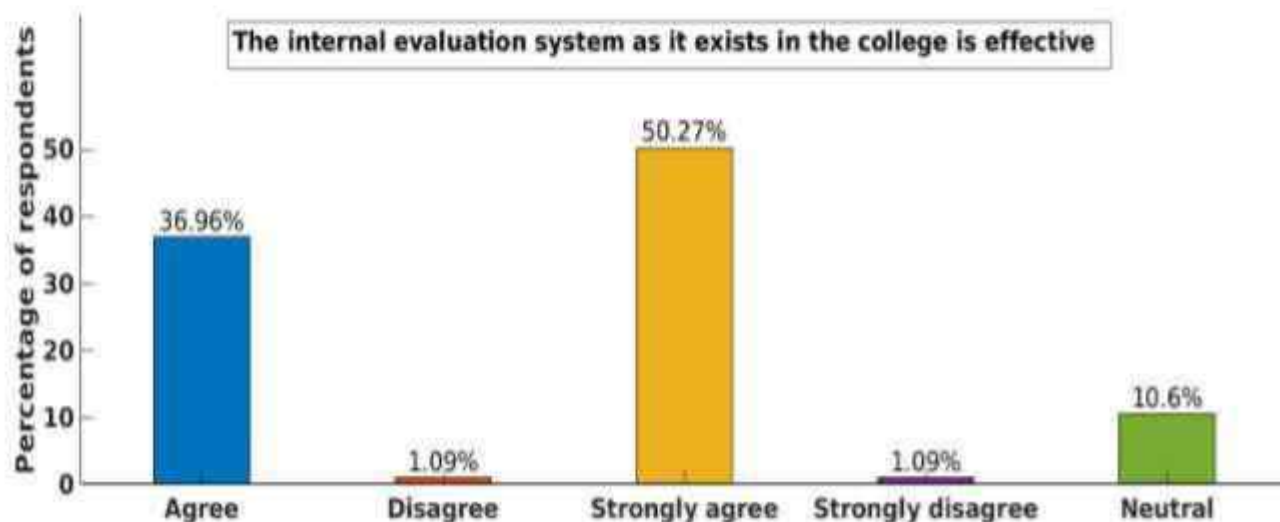
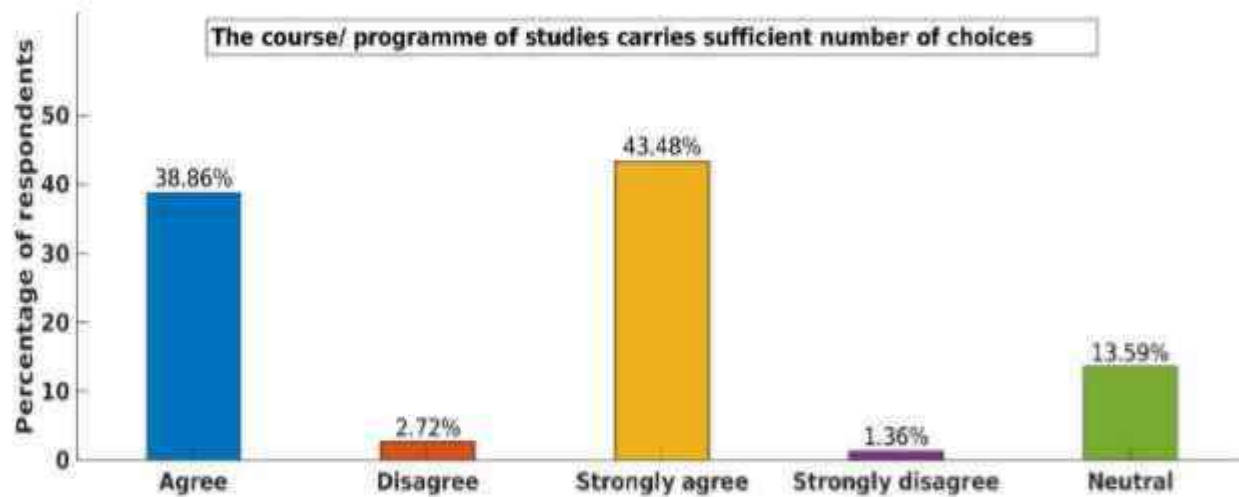
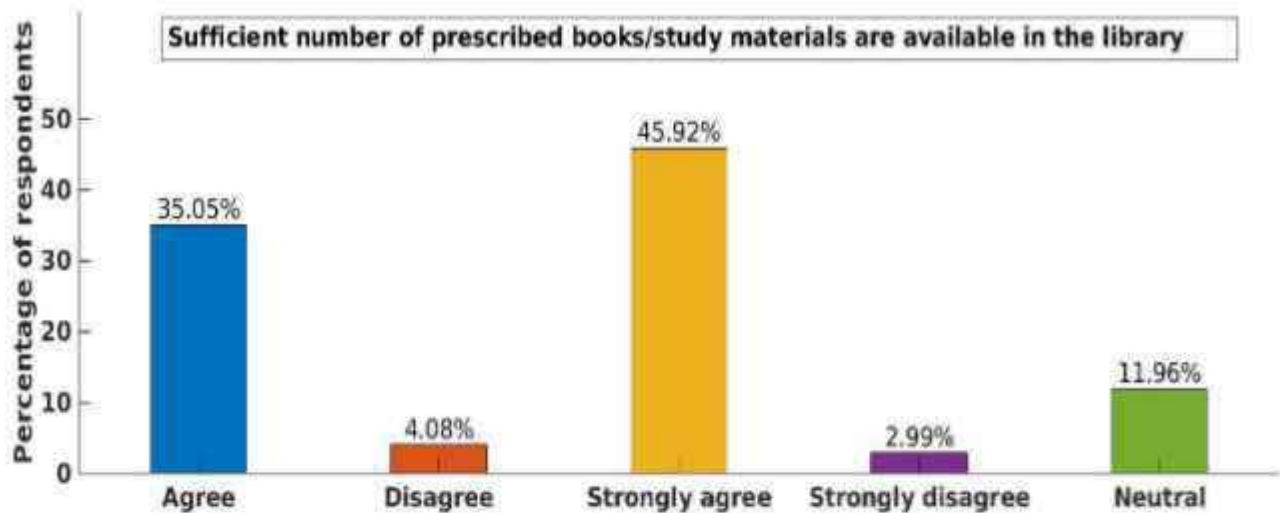




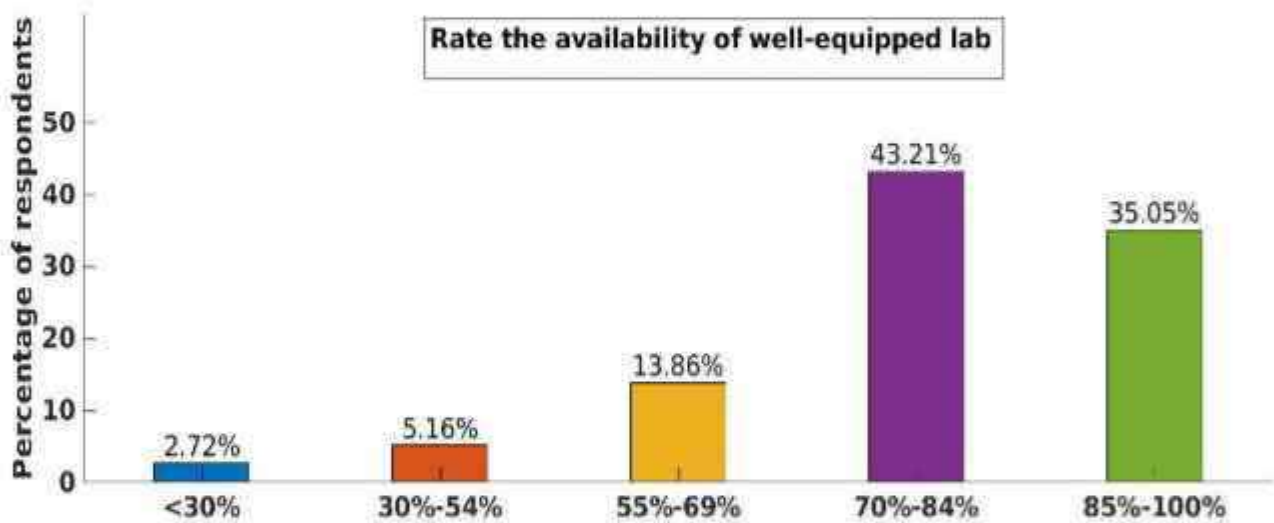
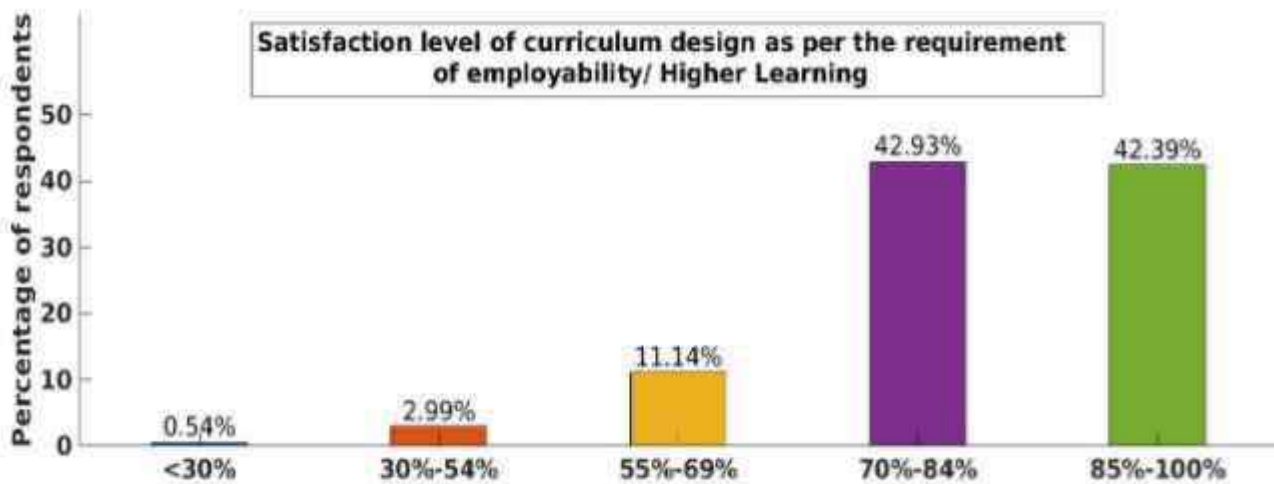
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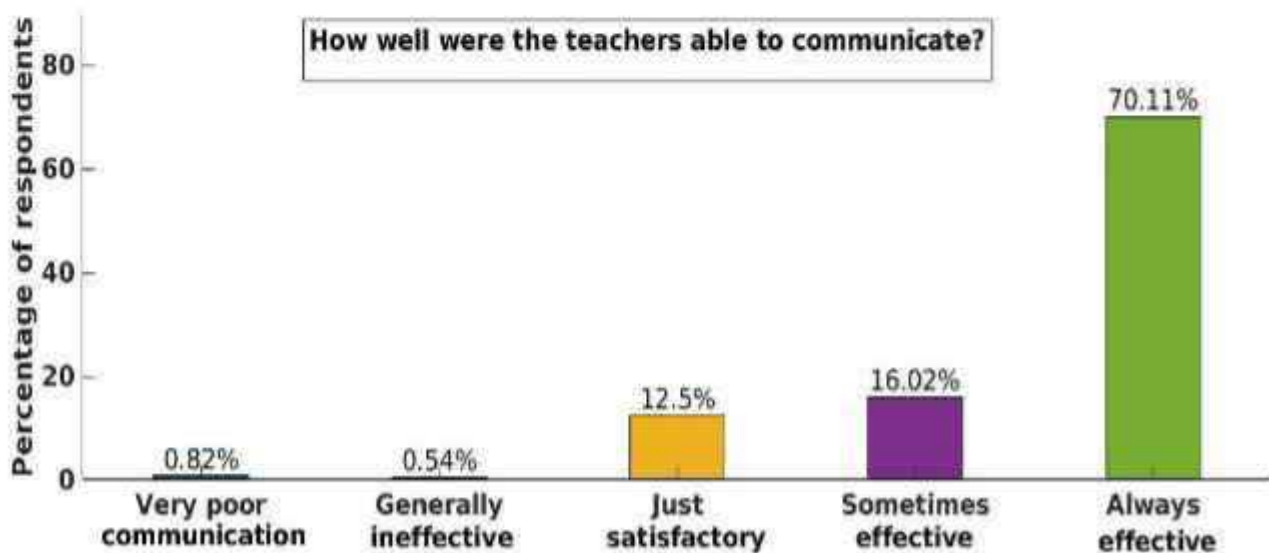
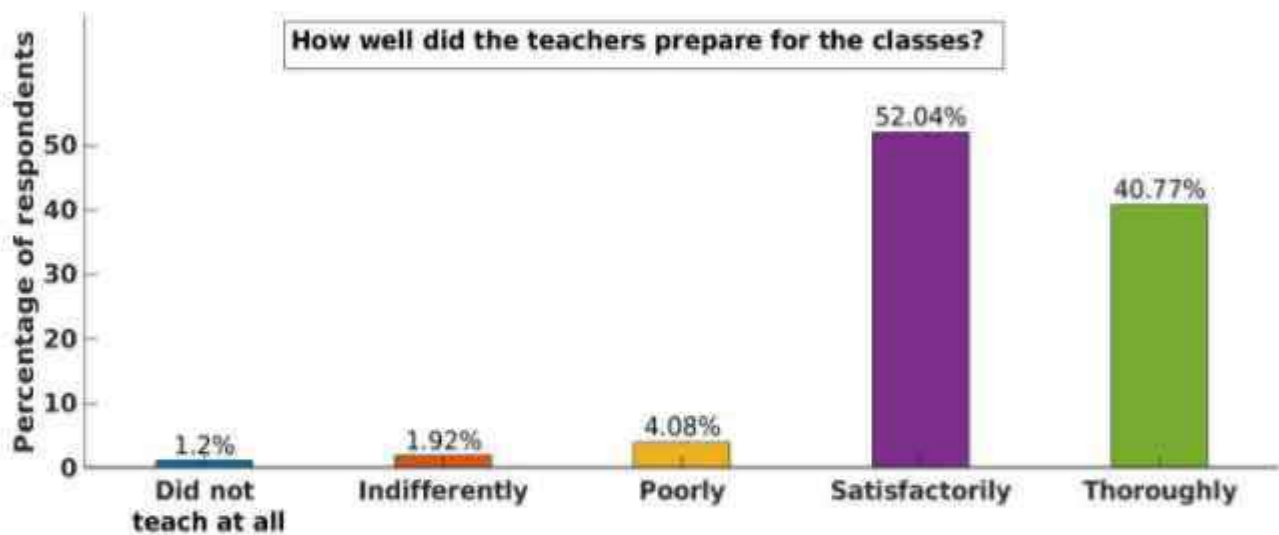
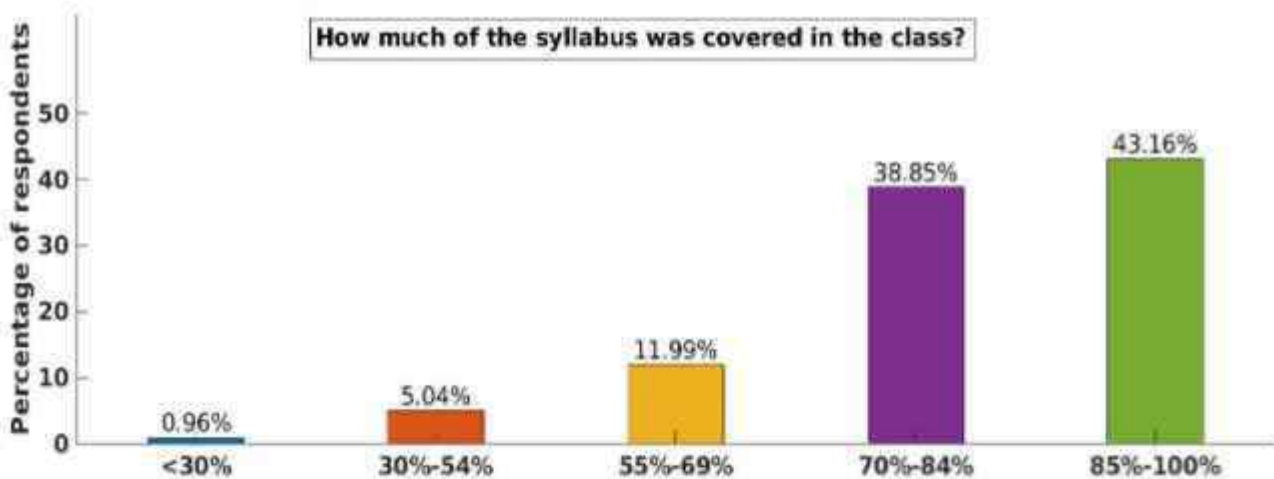


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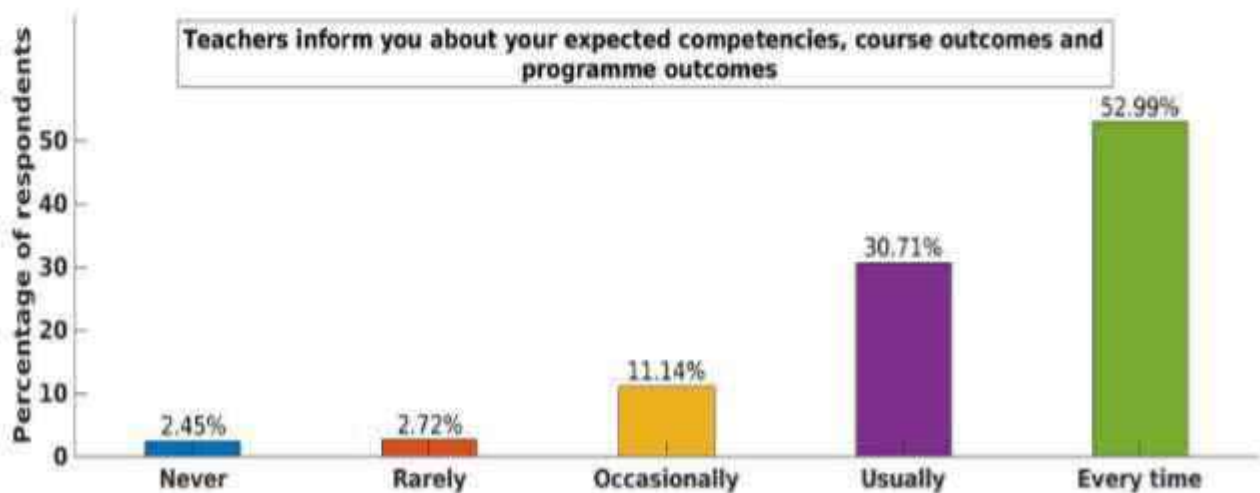
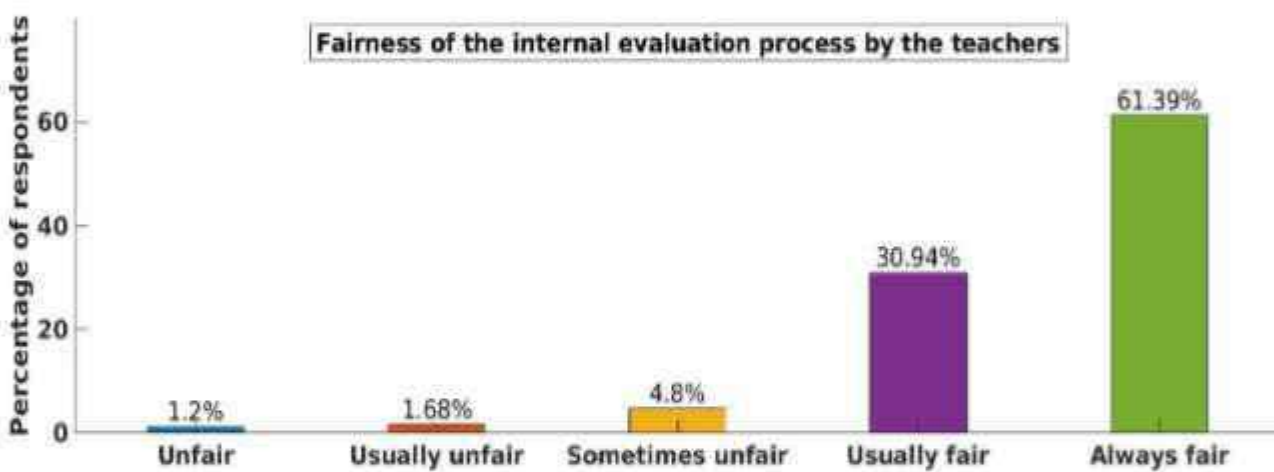
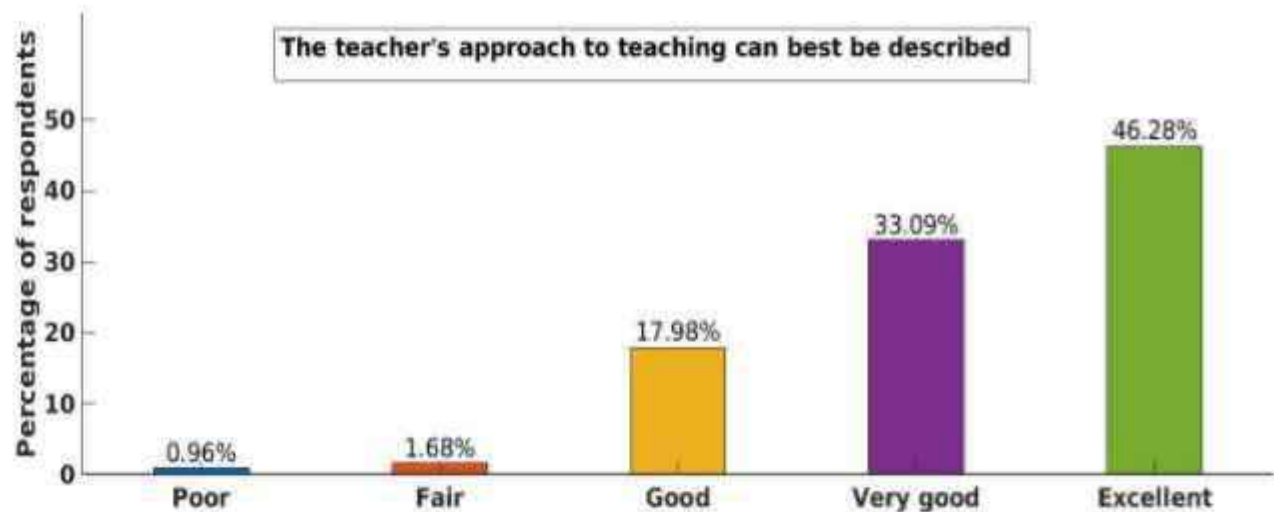




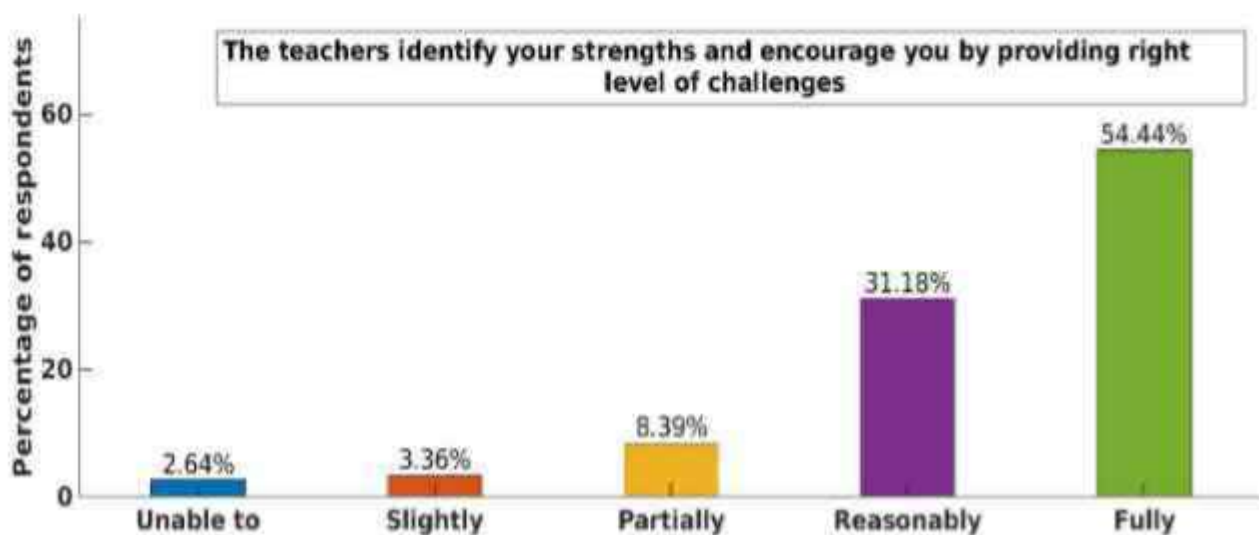
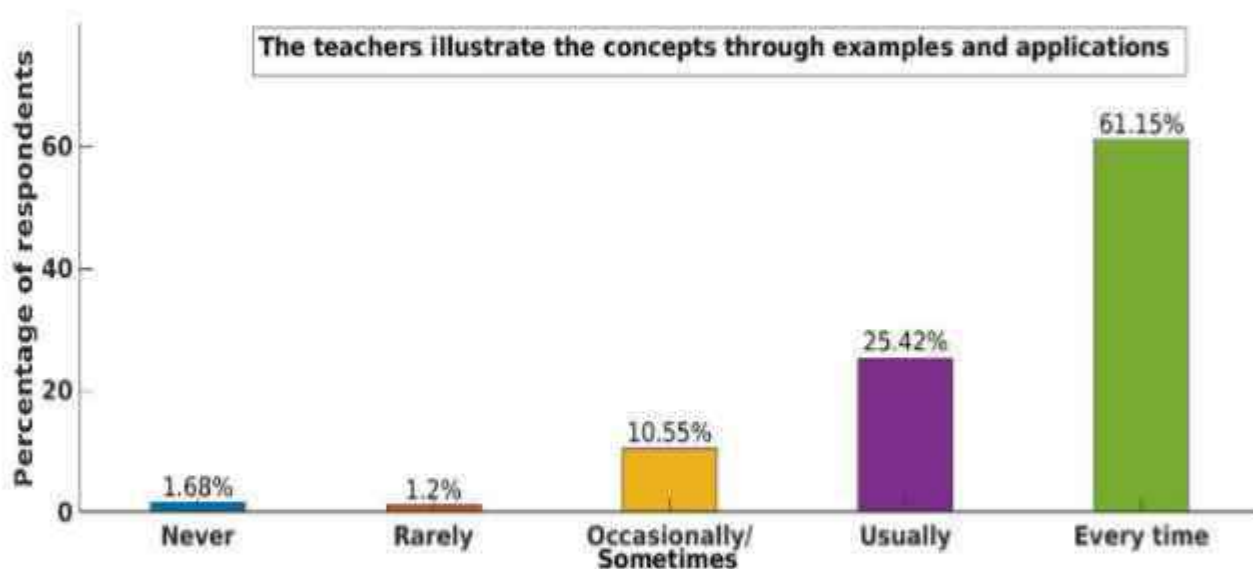
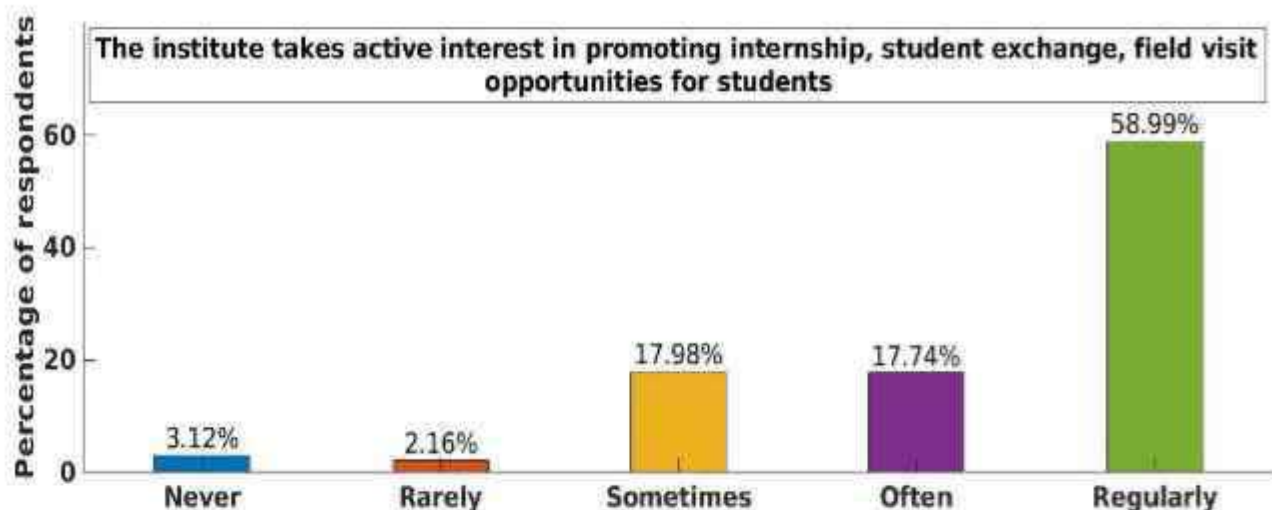
# Report on Analysis of Students' Satisfaction Survey 2022-2023



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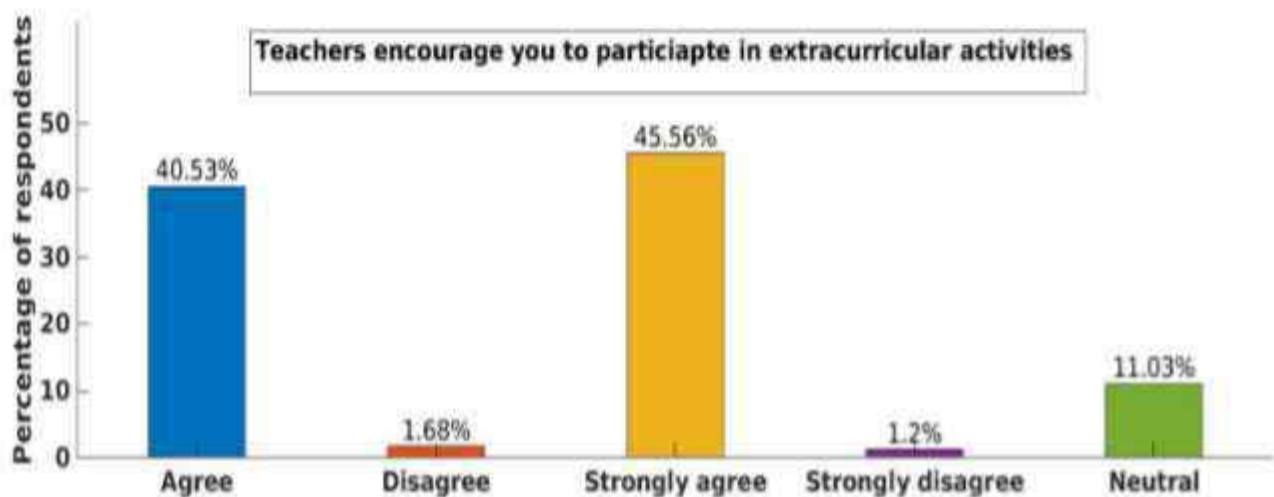
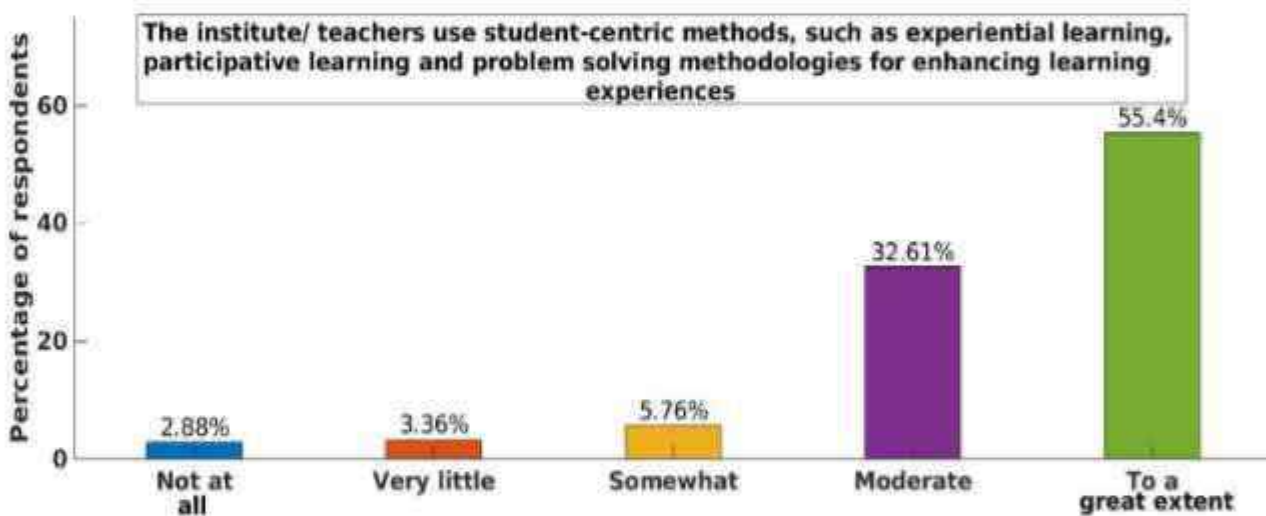
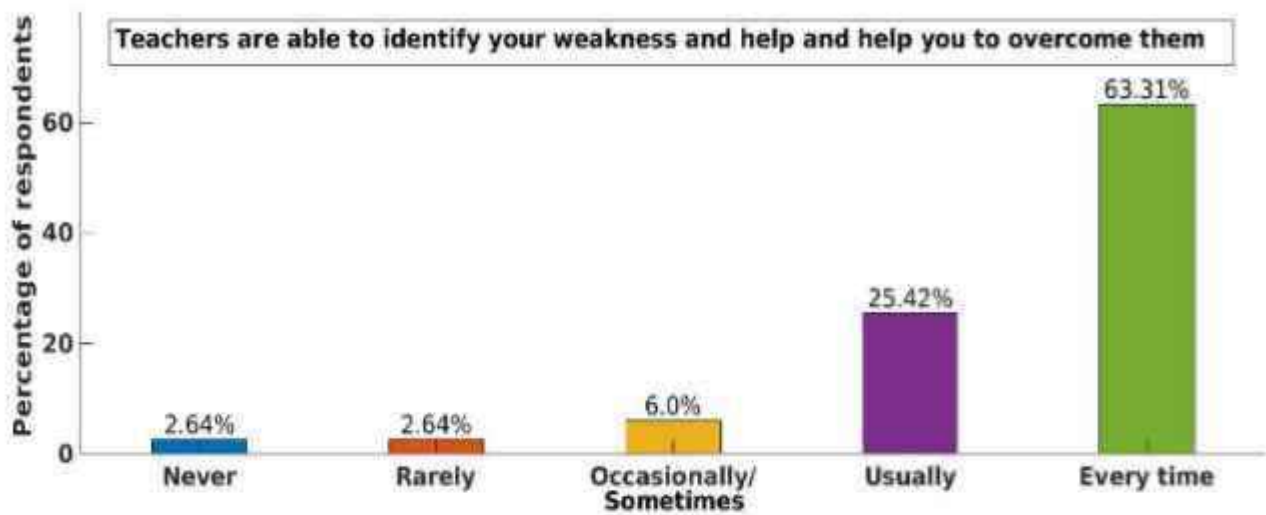


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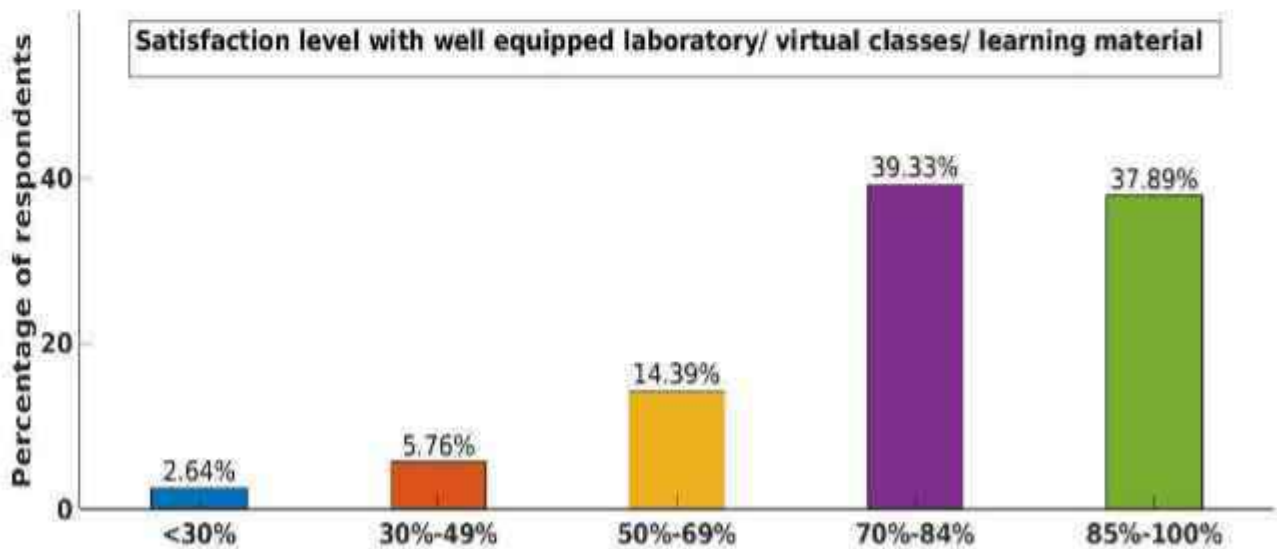
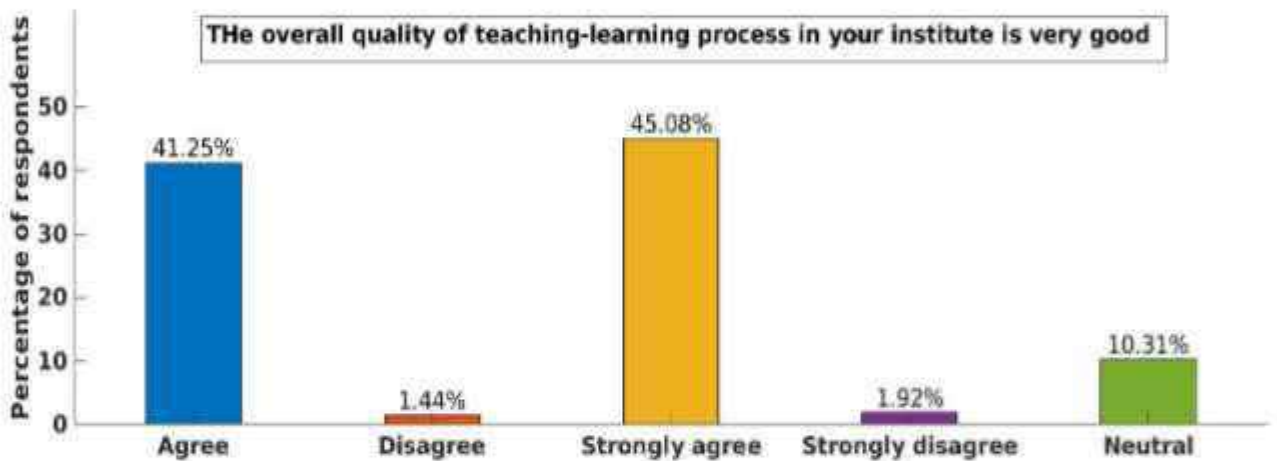
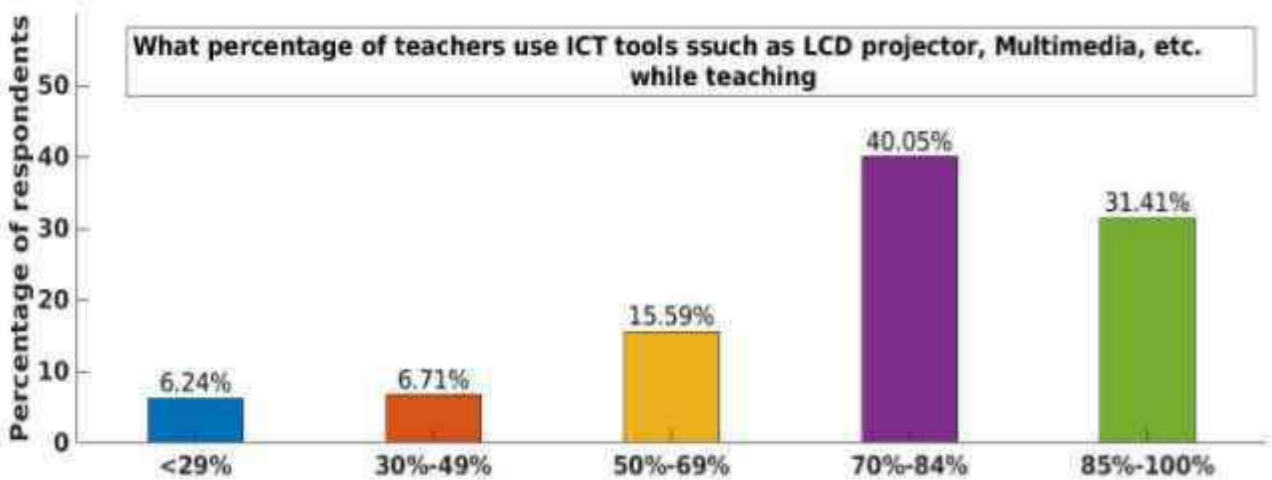




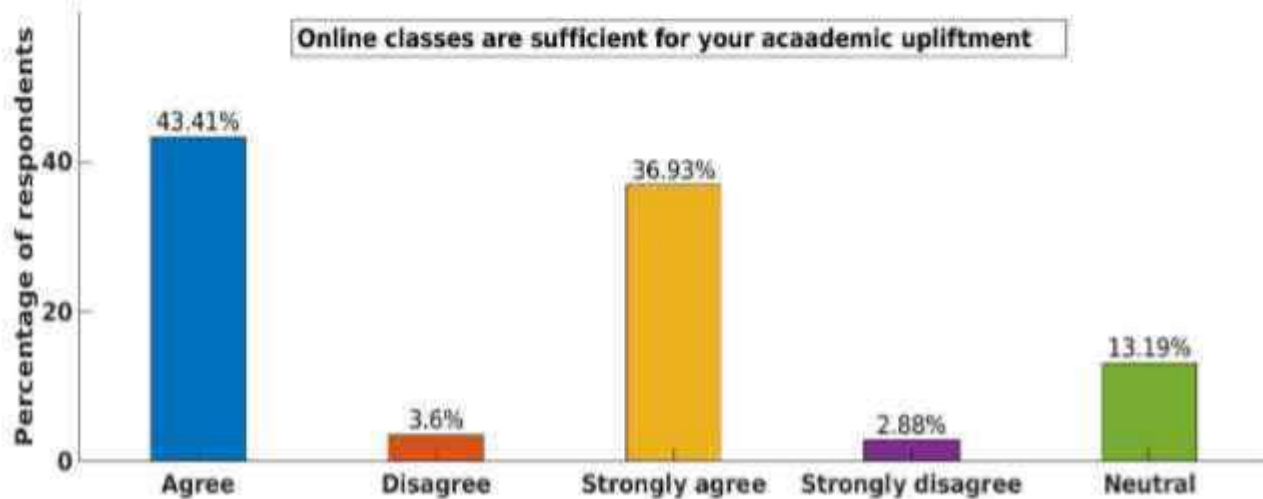
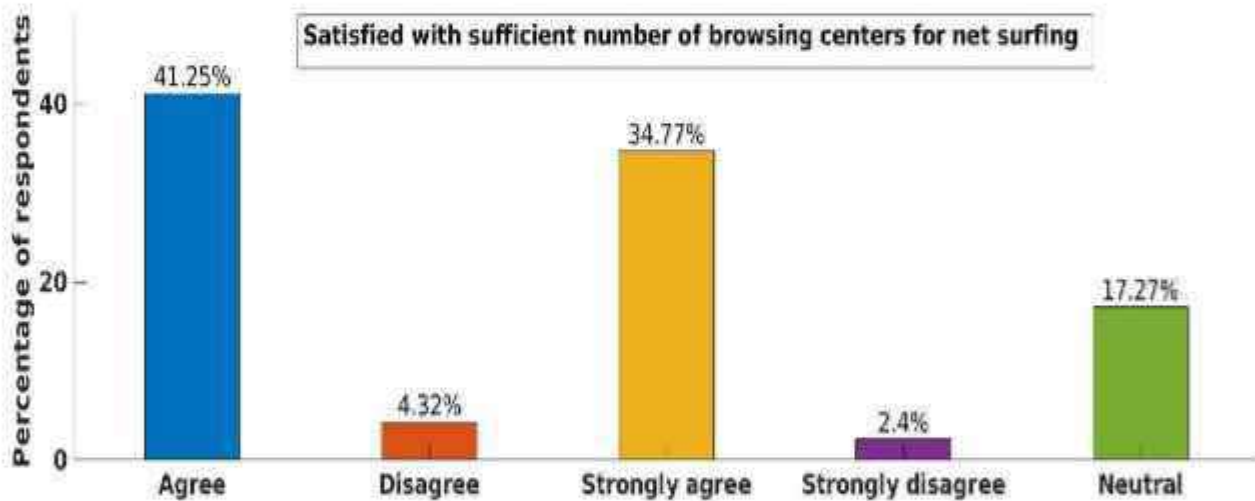
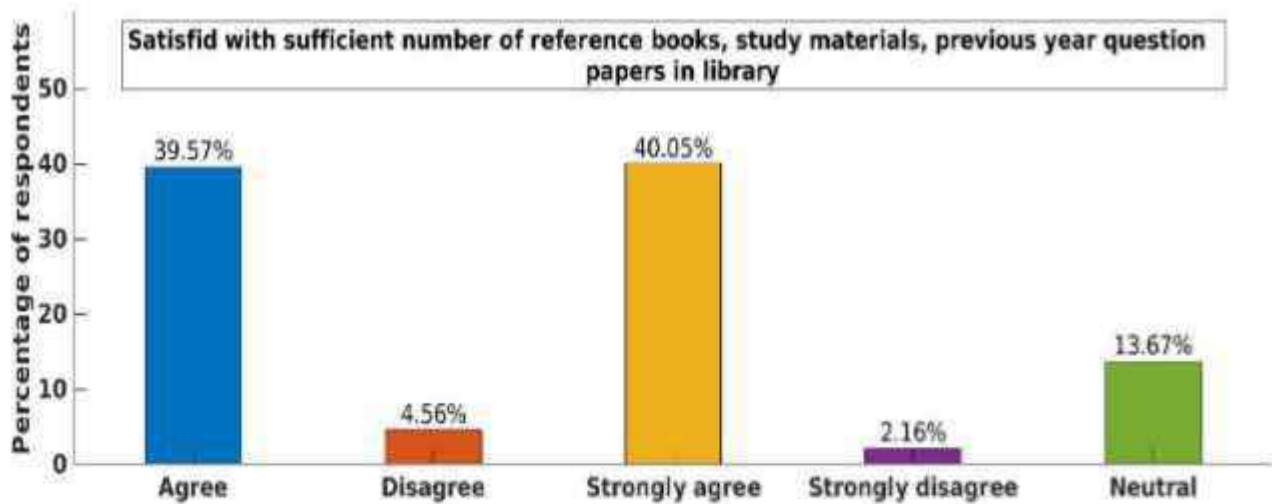
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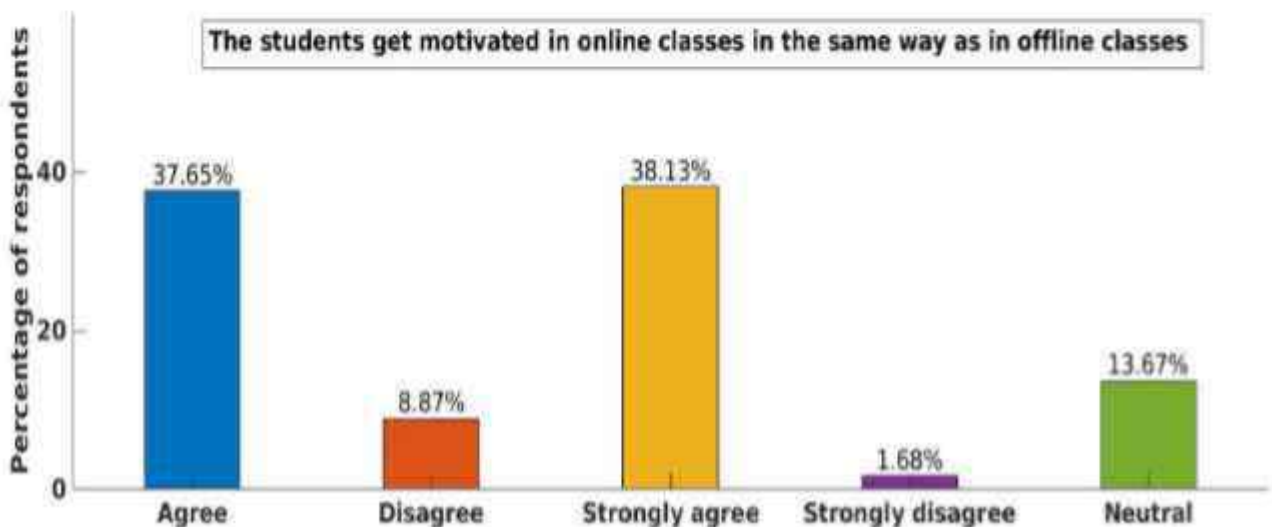
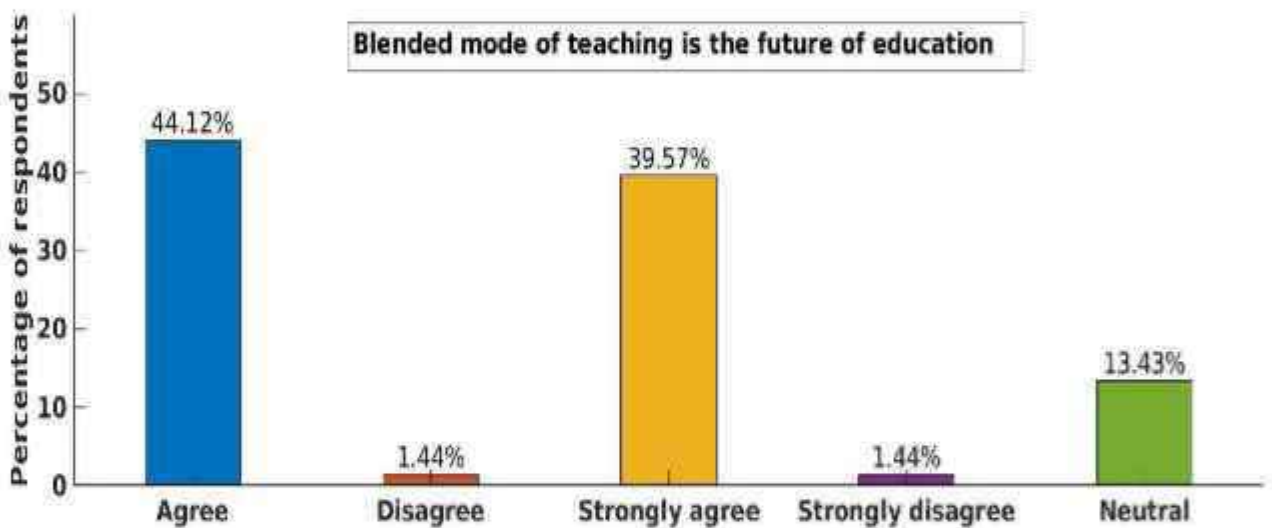
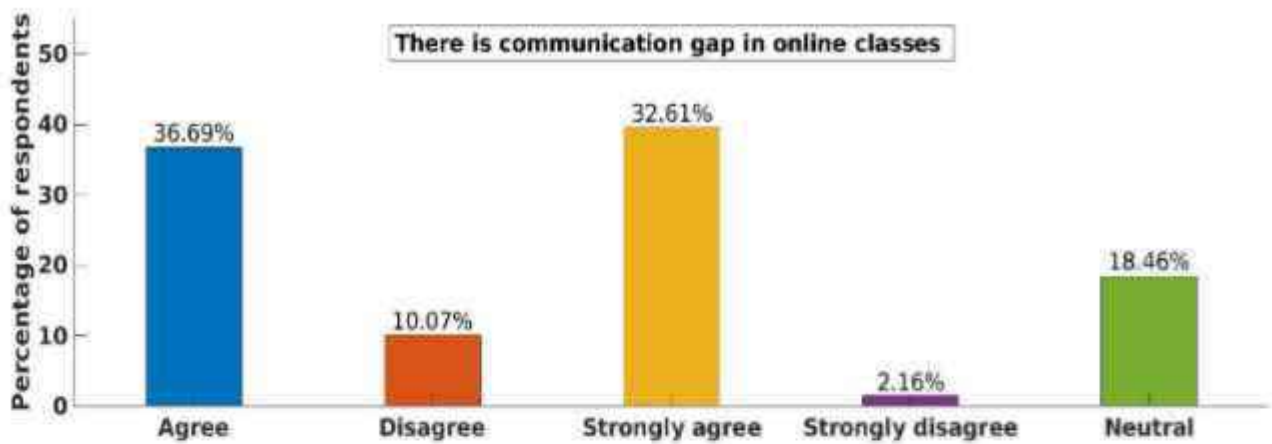


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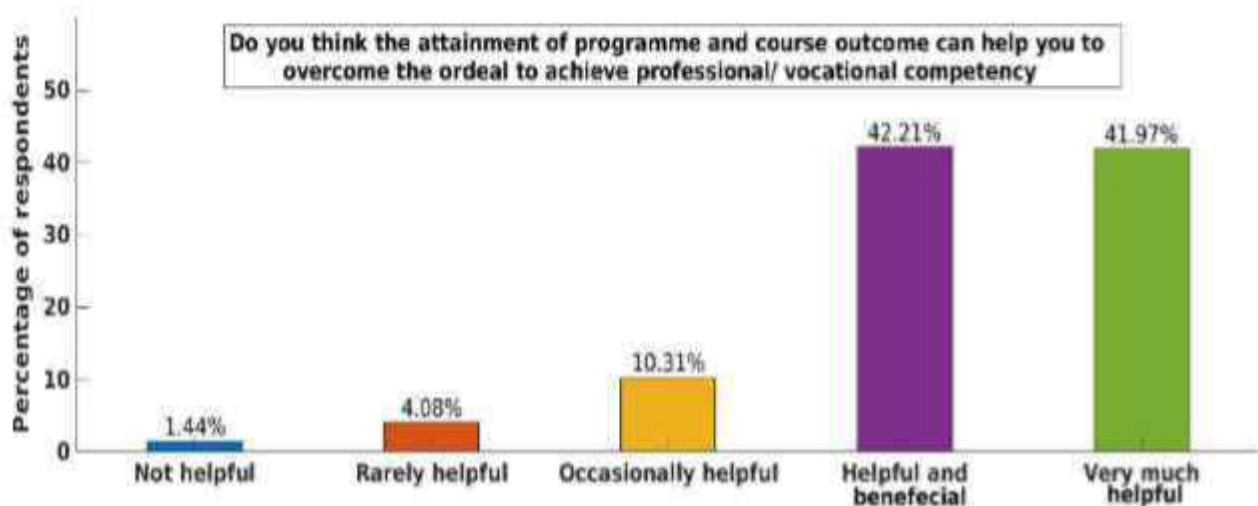
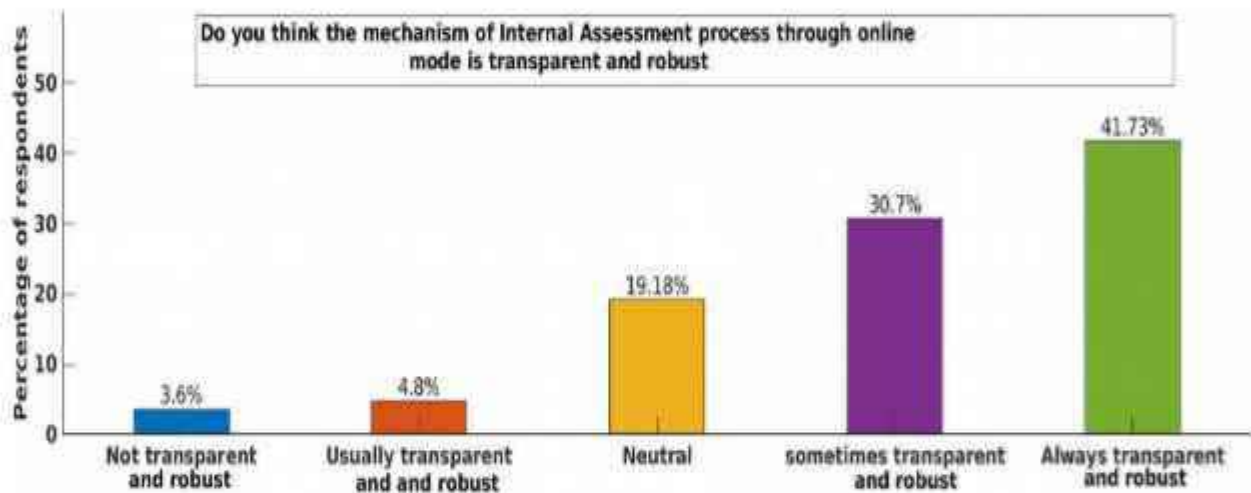
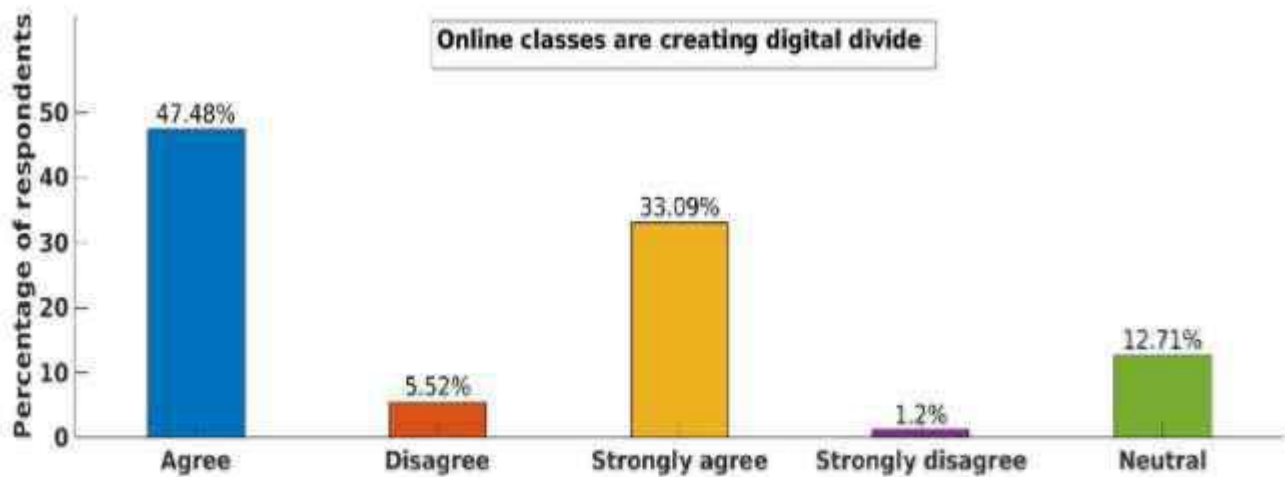




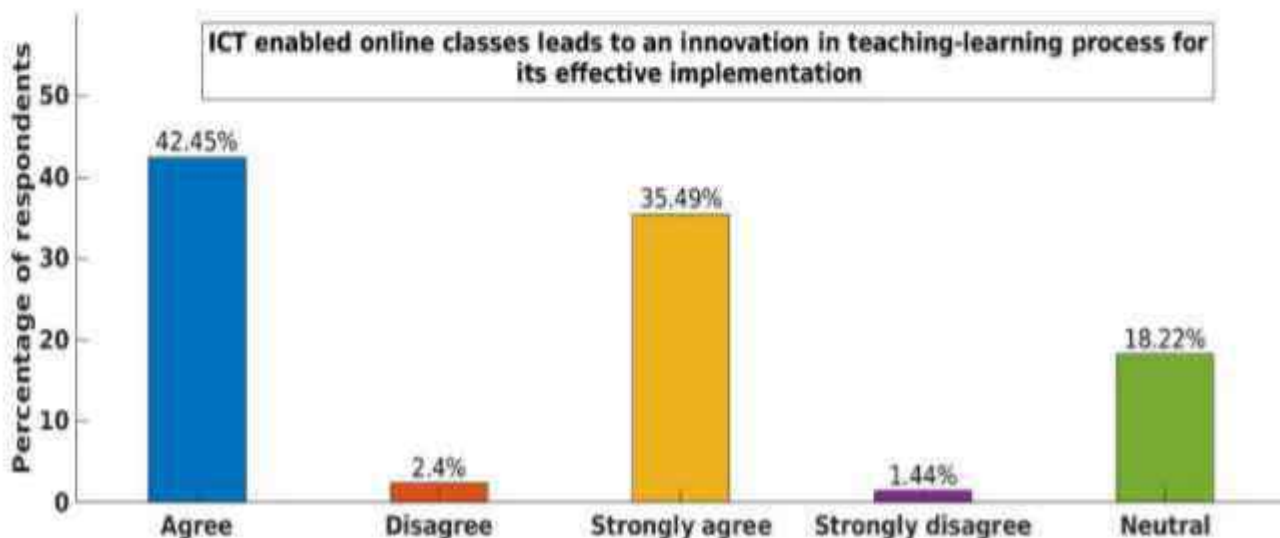
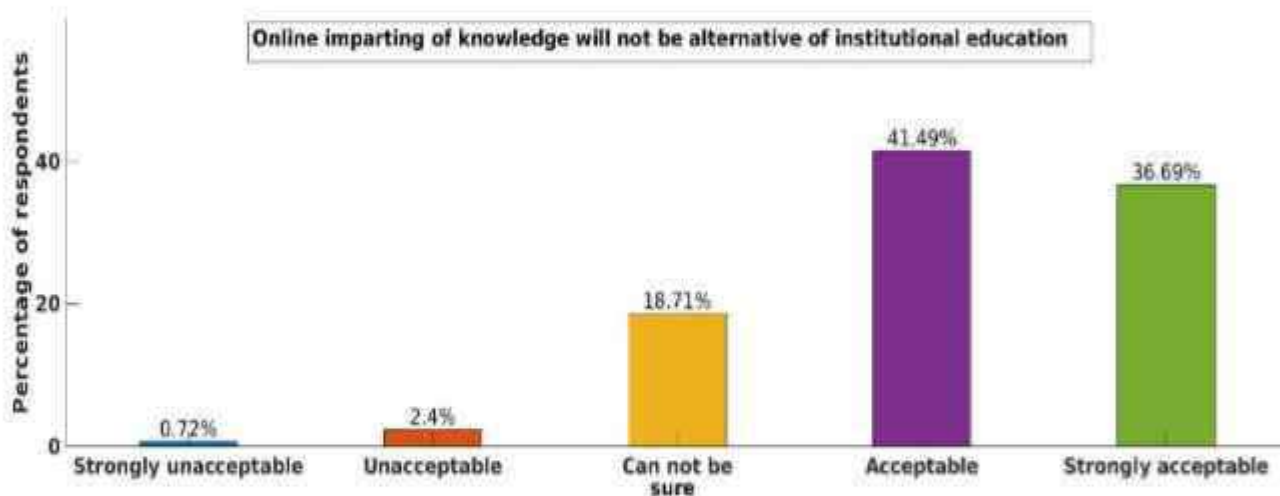
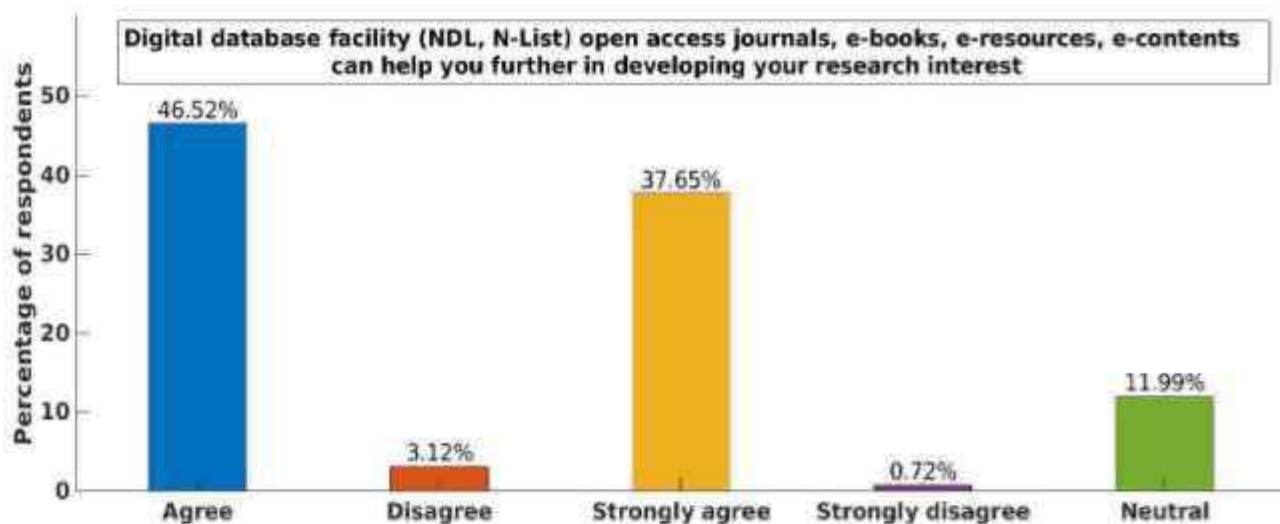
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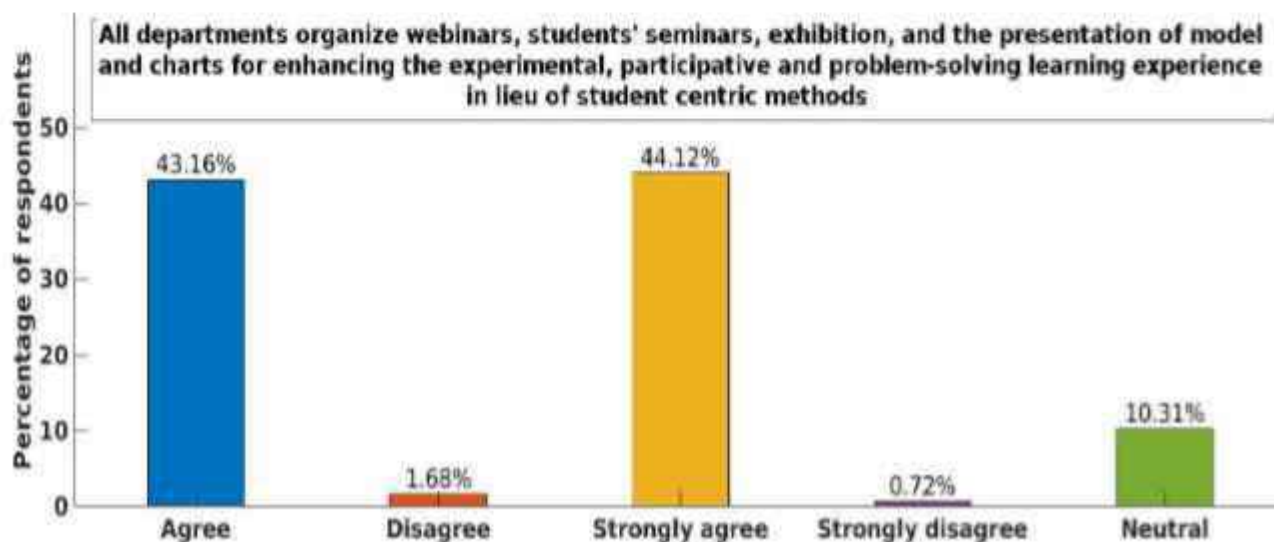
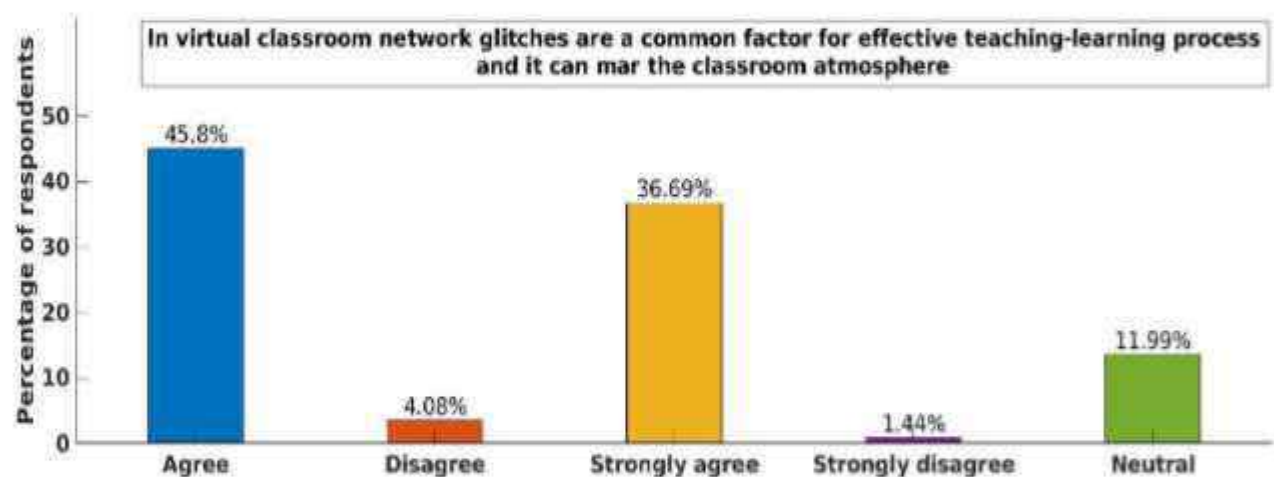
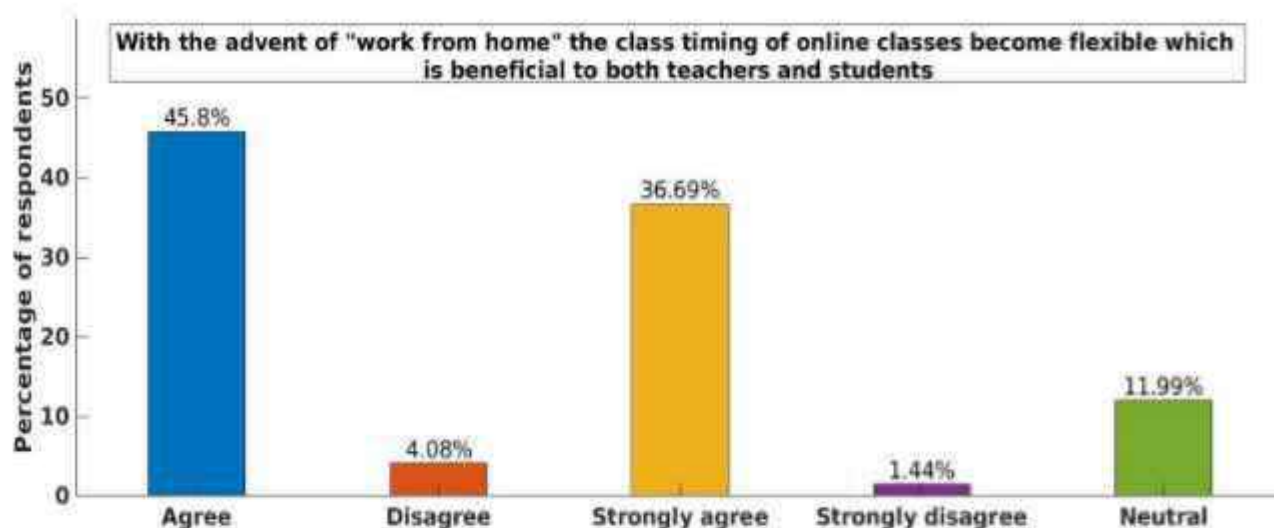


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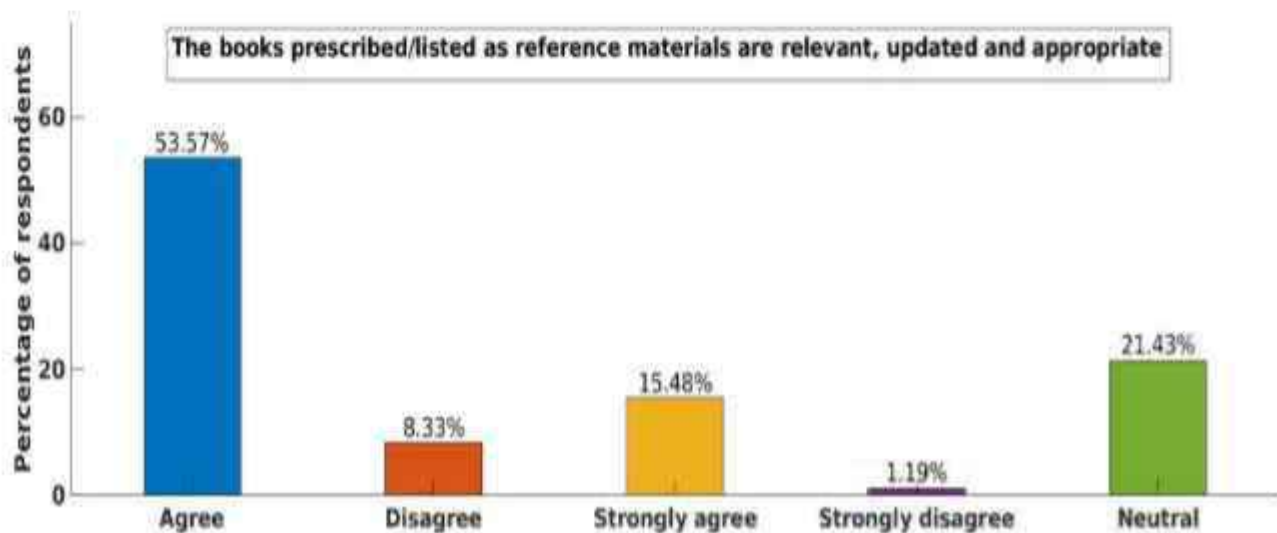
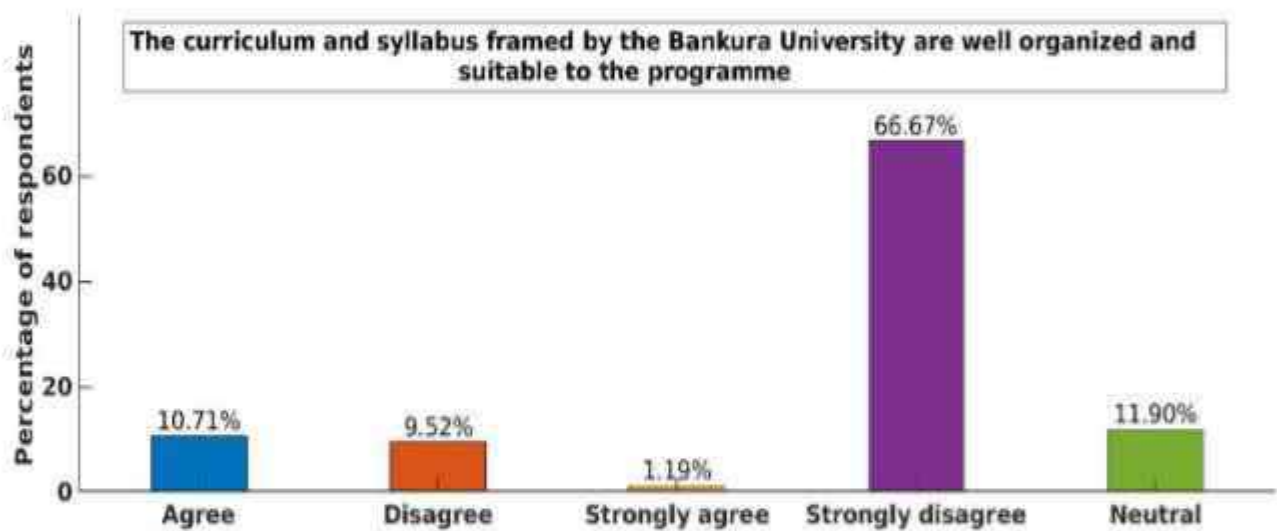
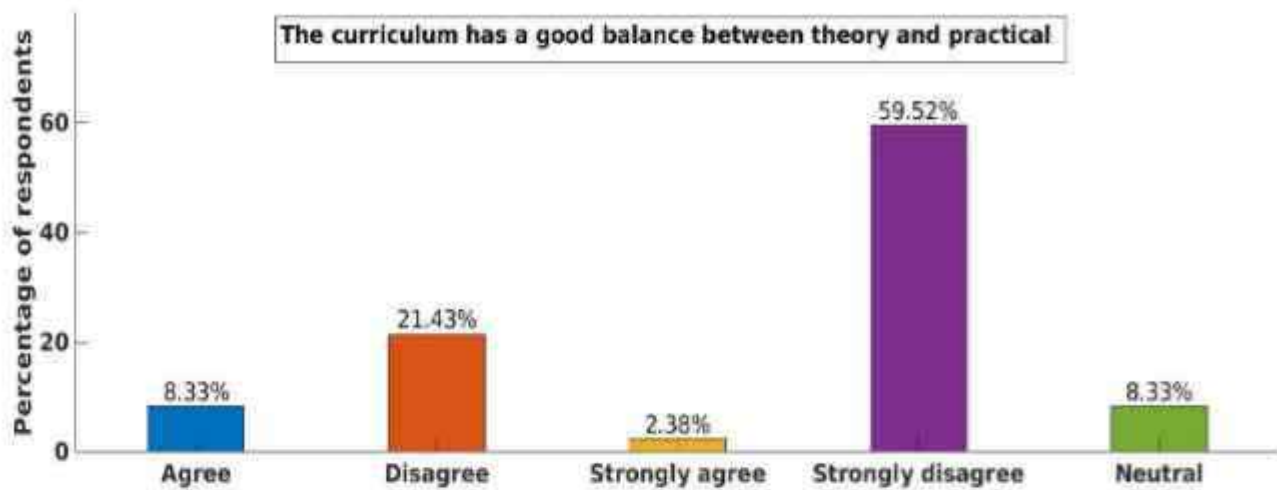




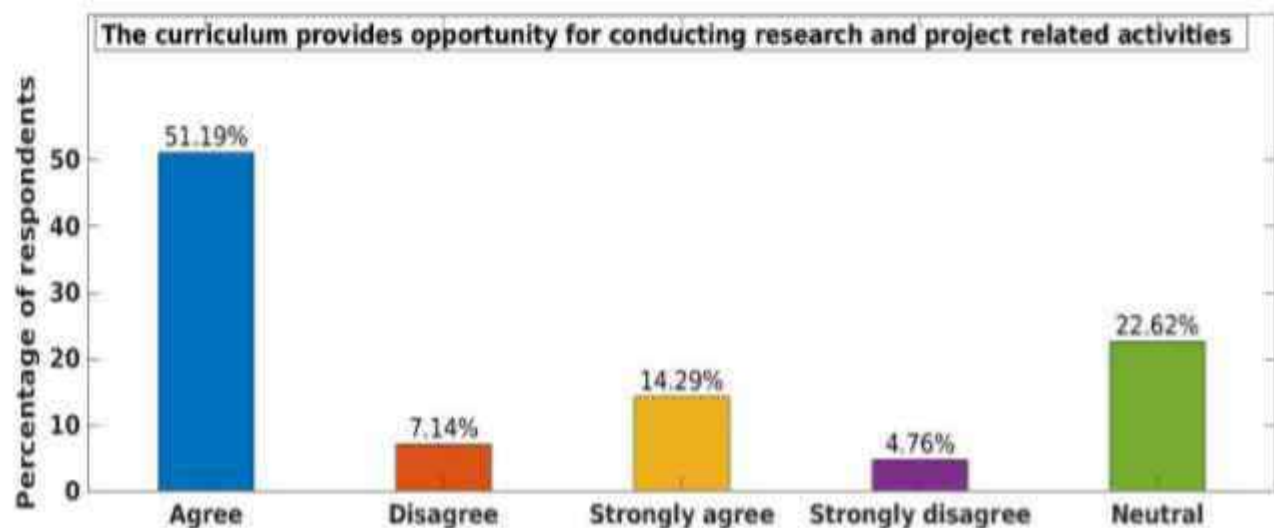
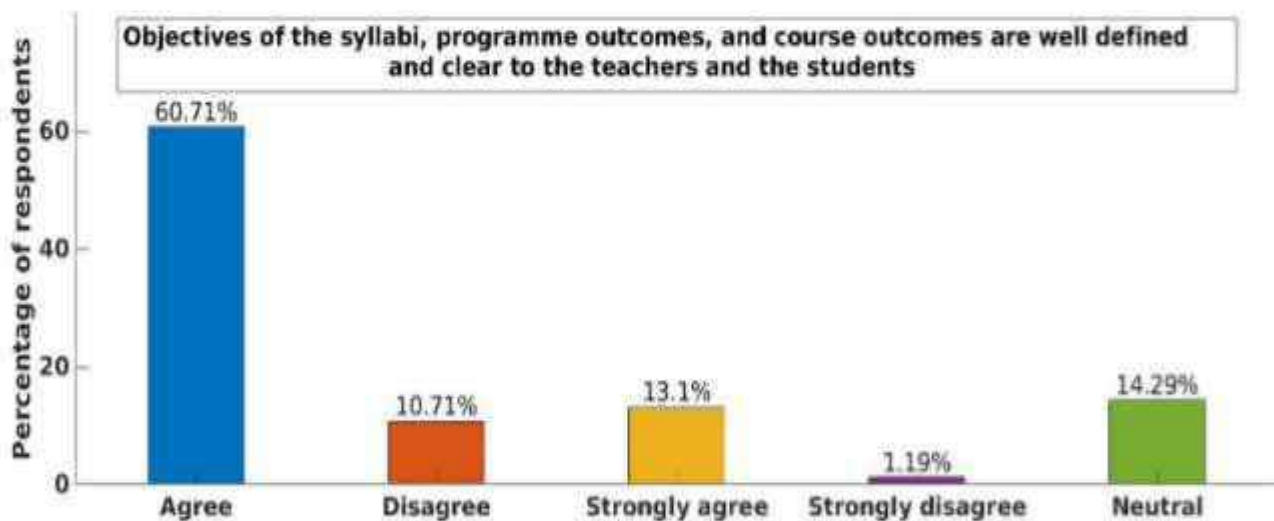
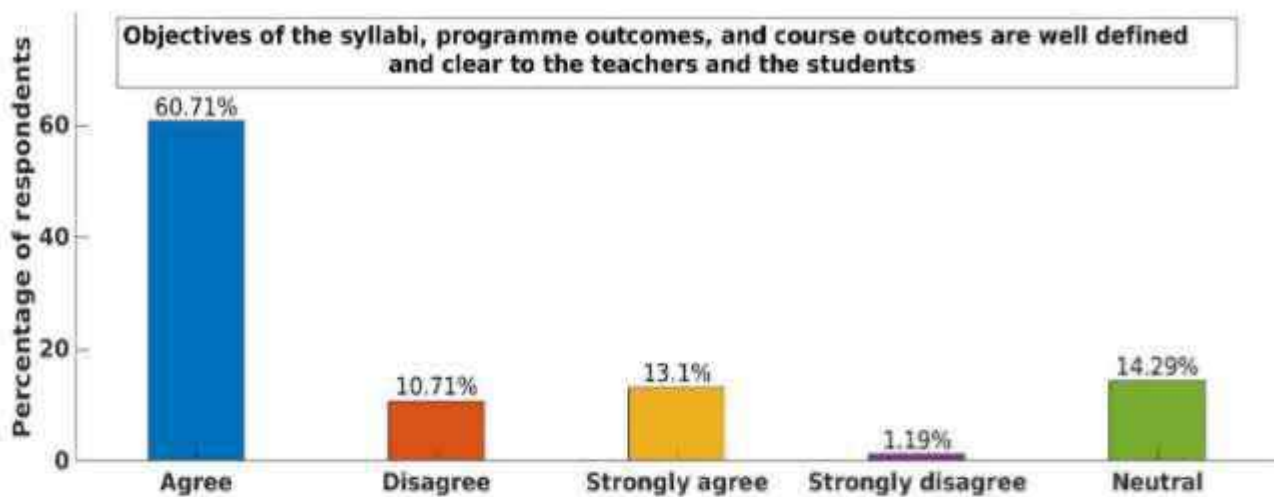
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## Report on the analysis of teachers' feedback on curriculum design & review 2022-2023

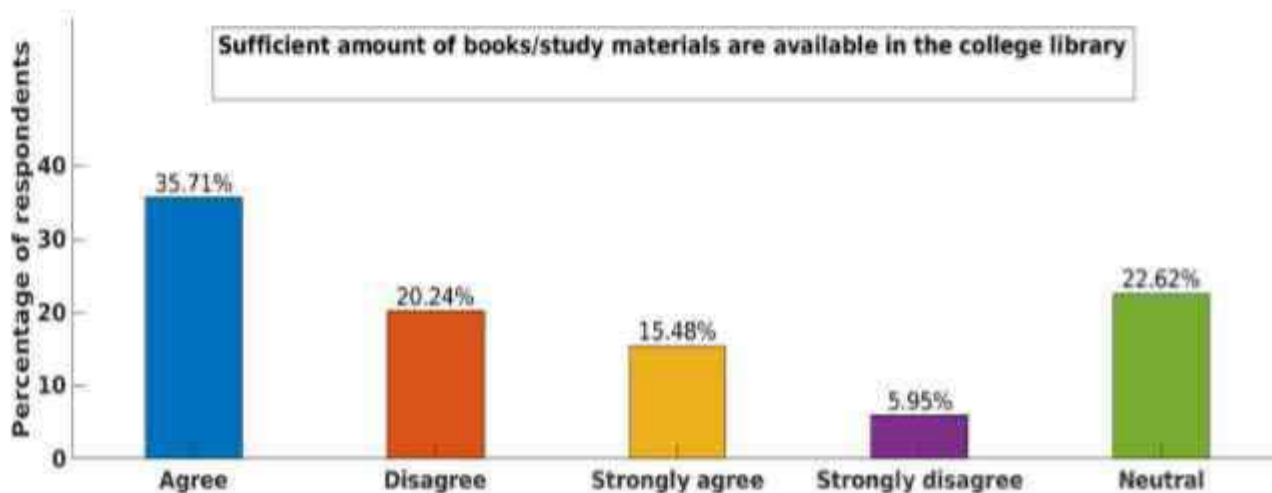
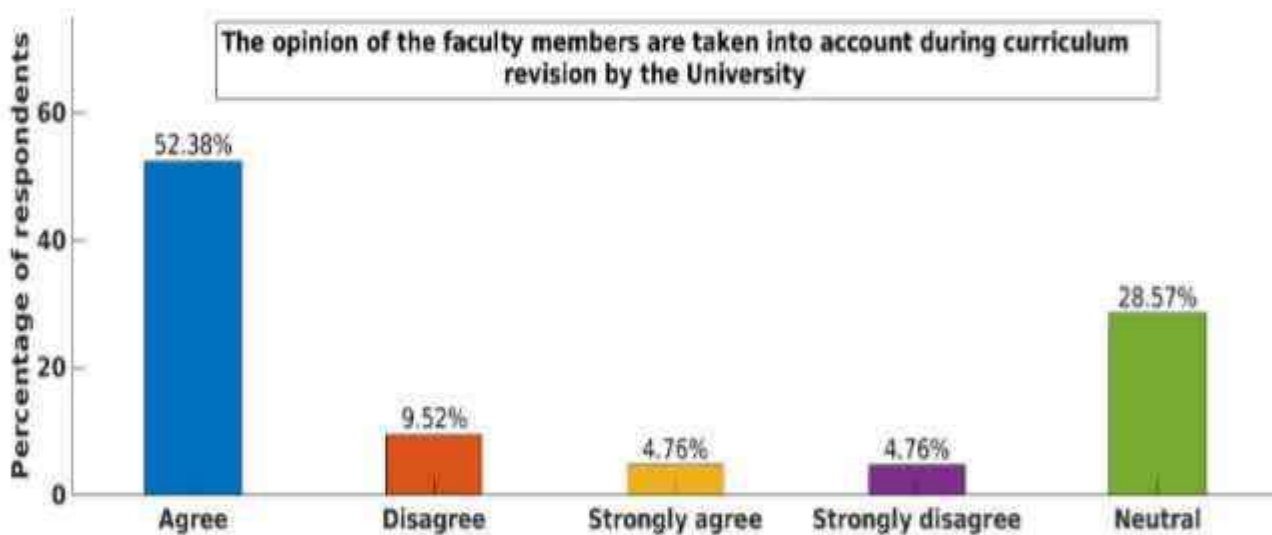
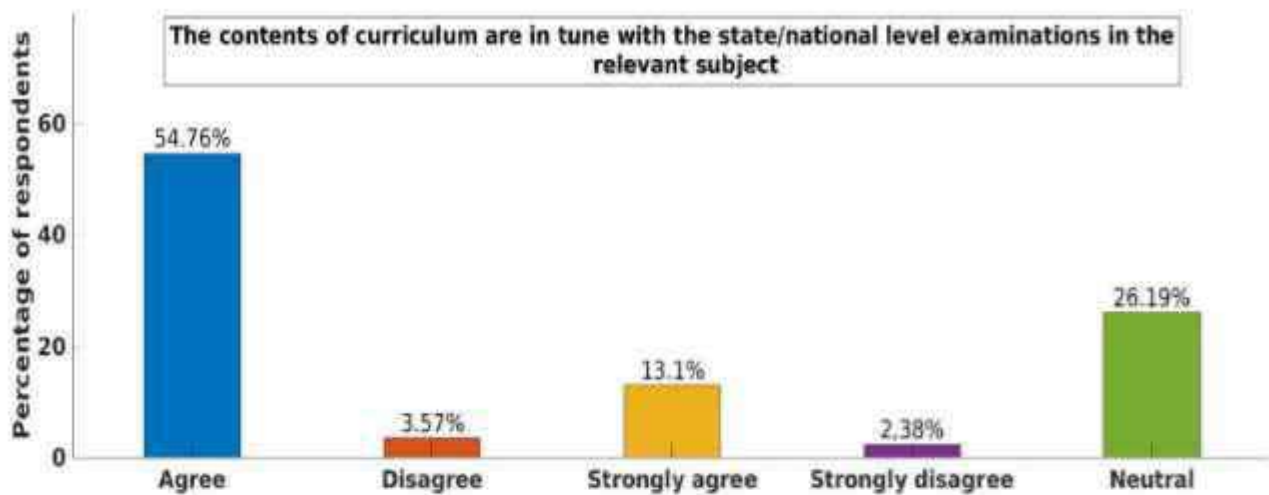


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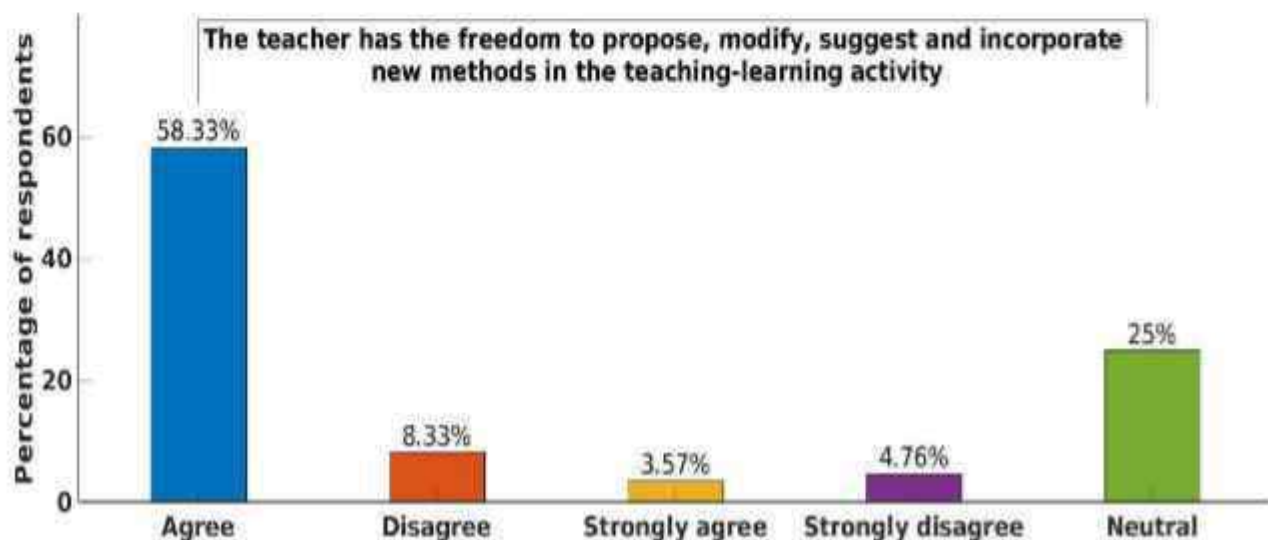
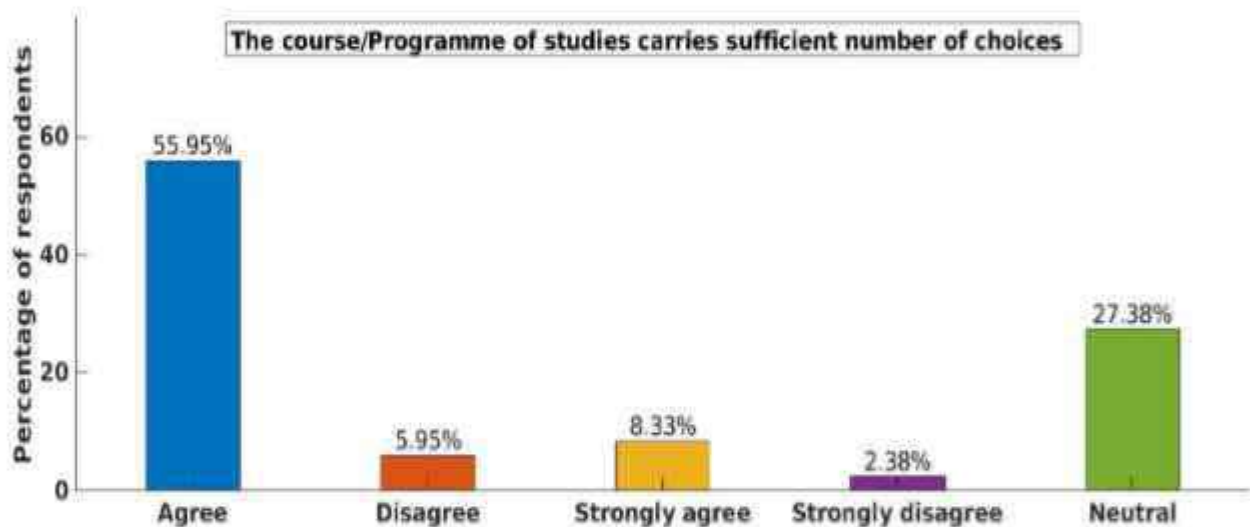
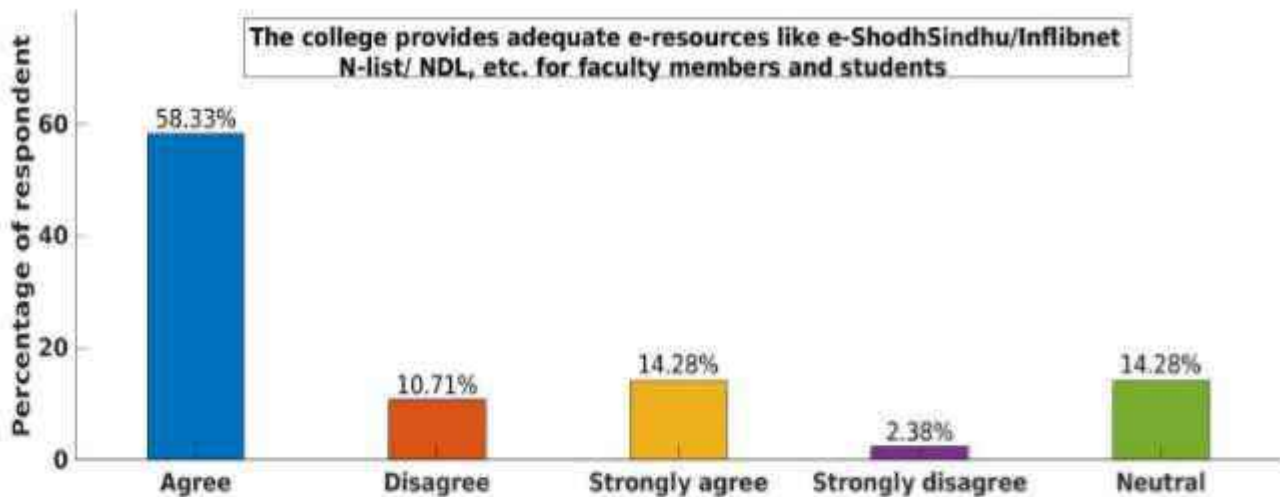




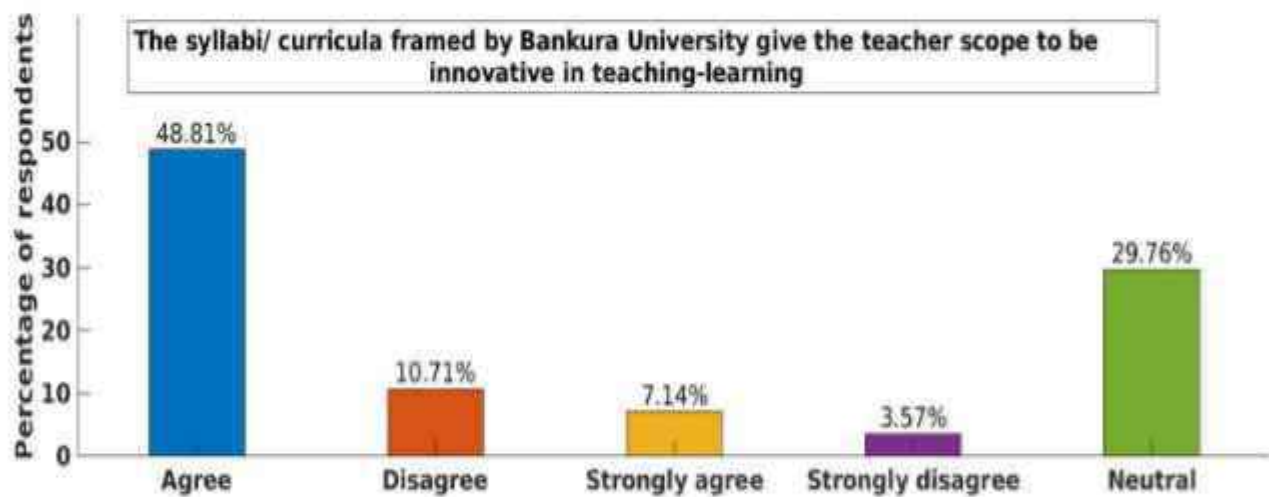
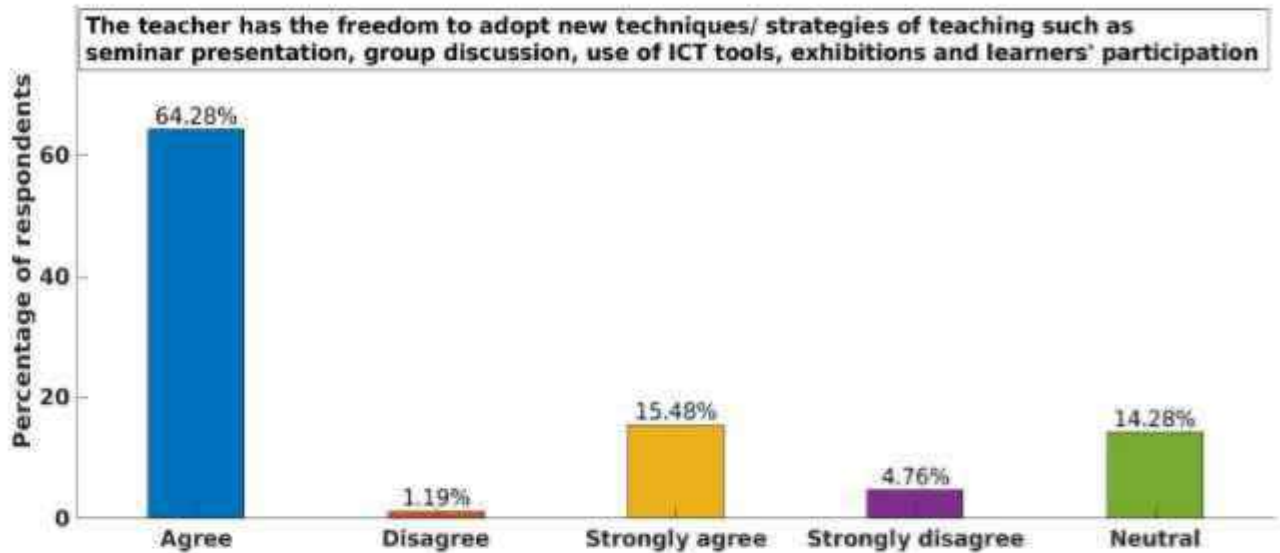
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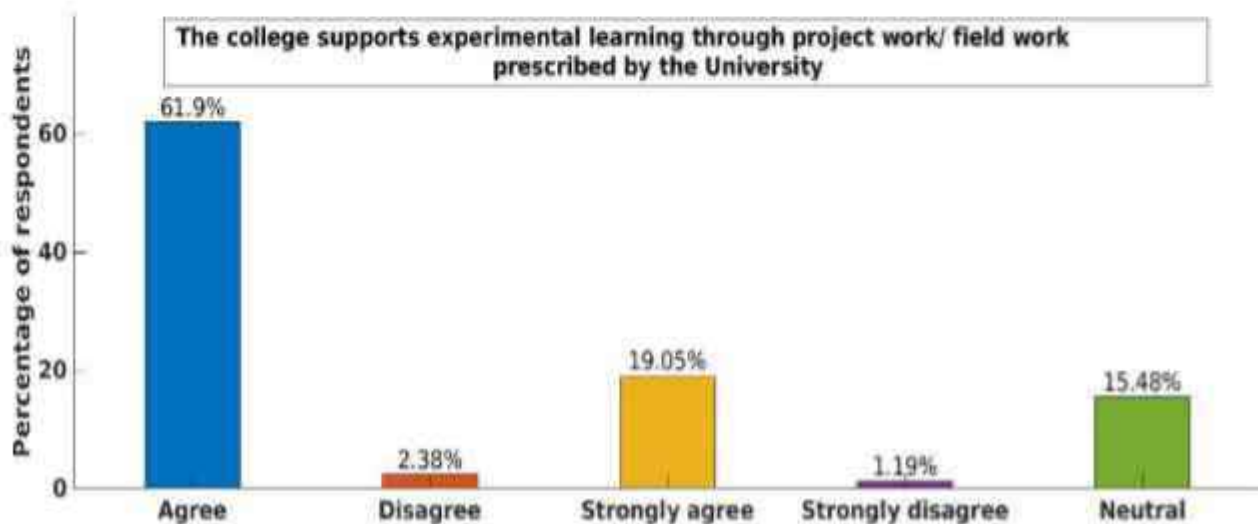
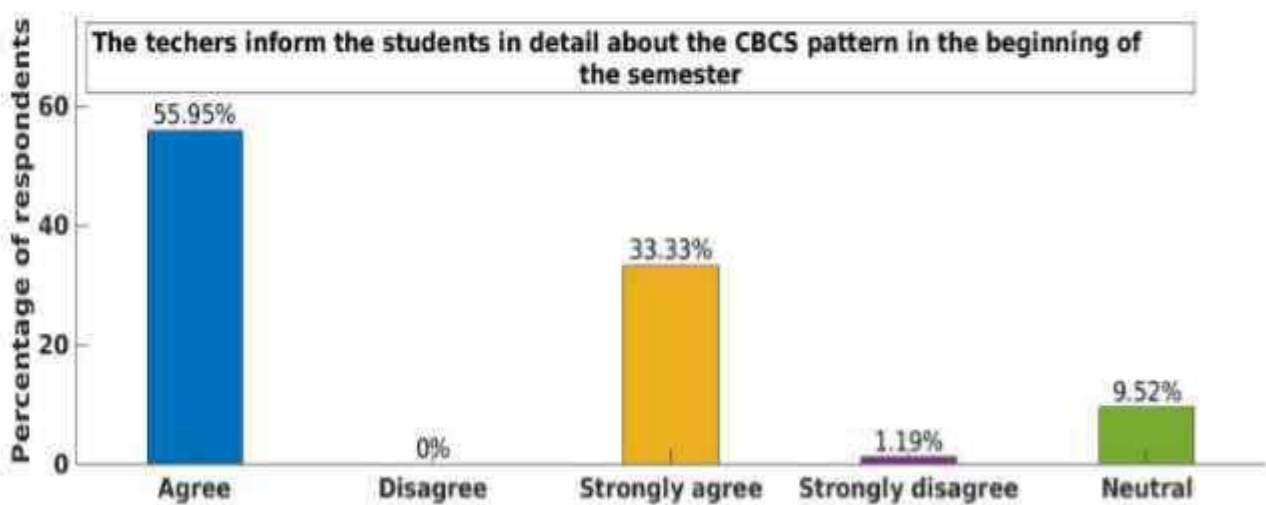
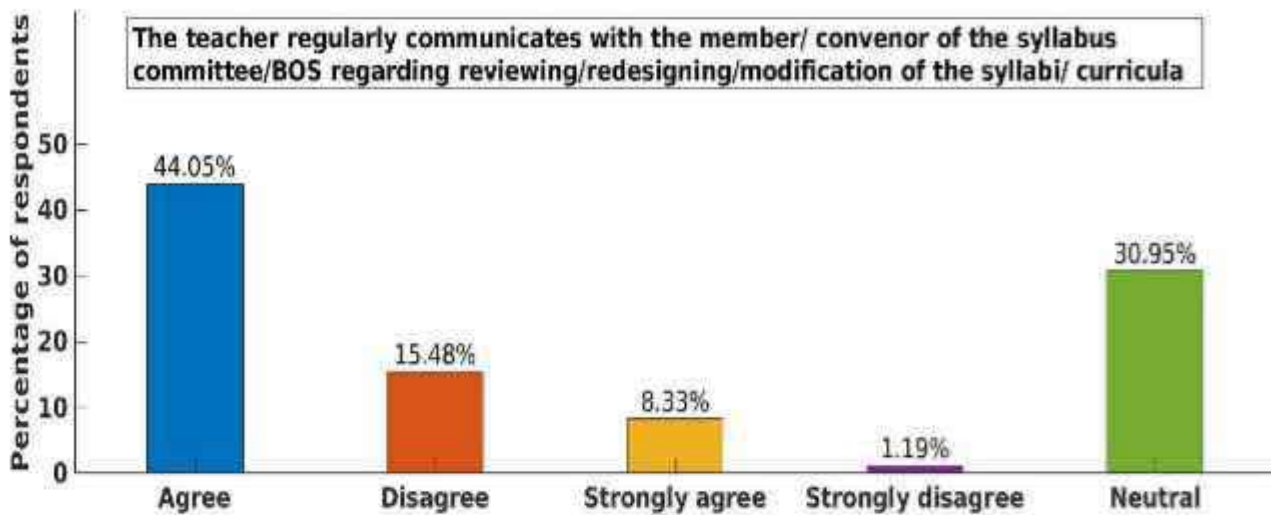


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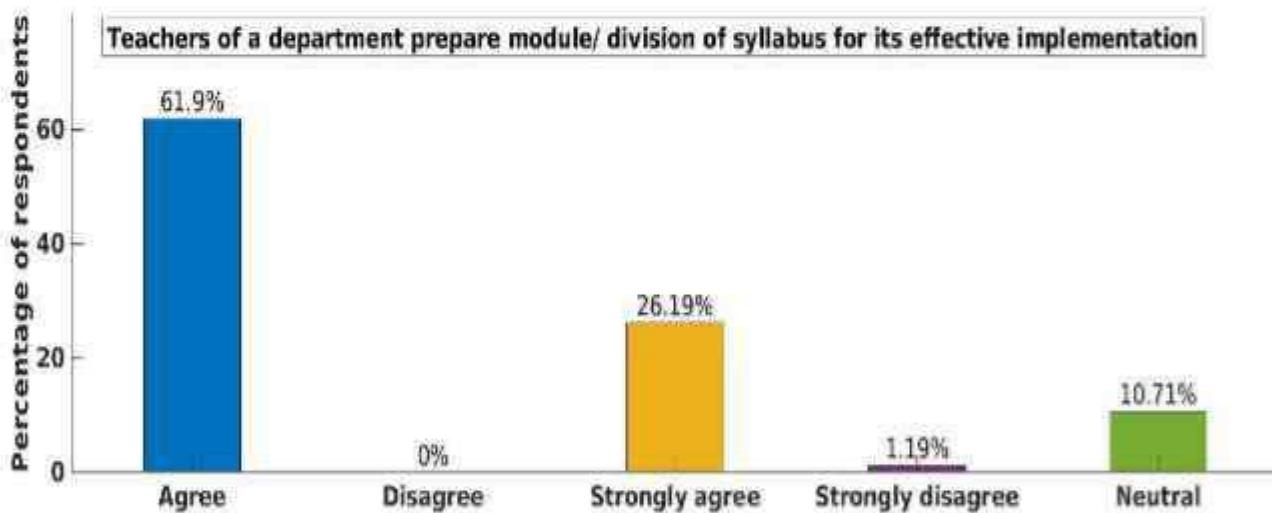
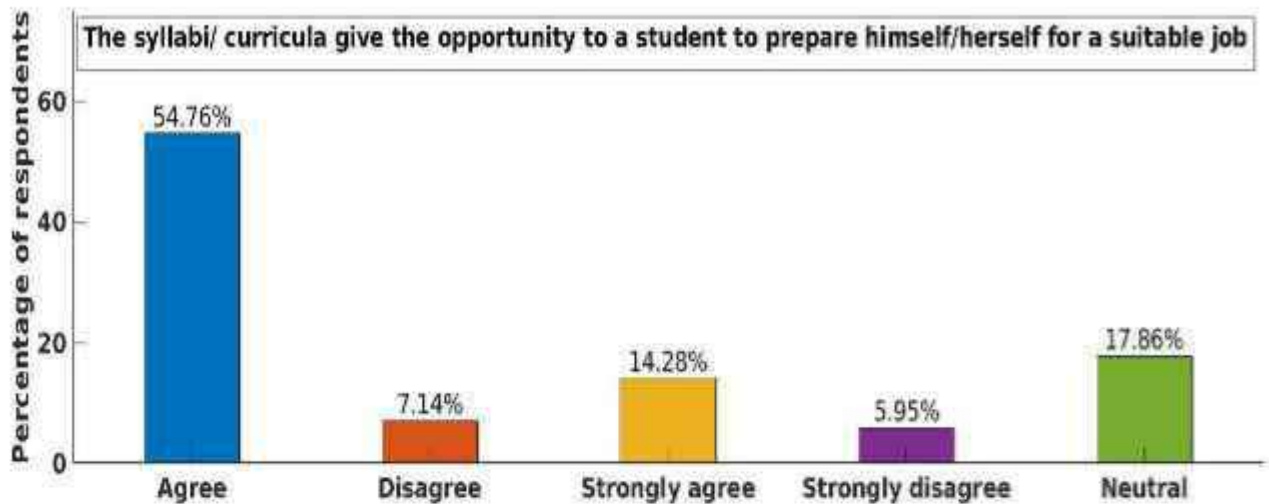




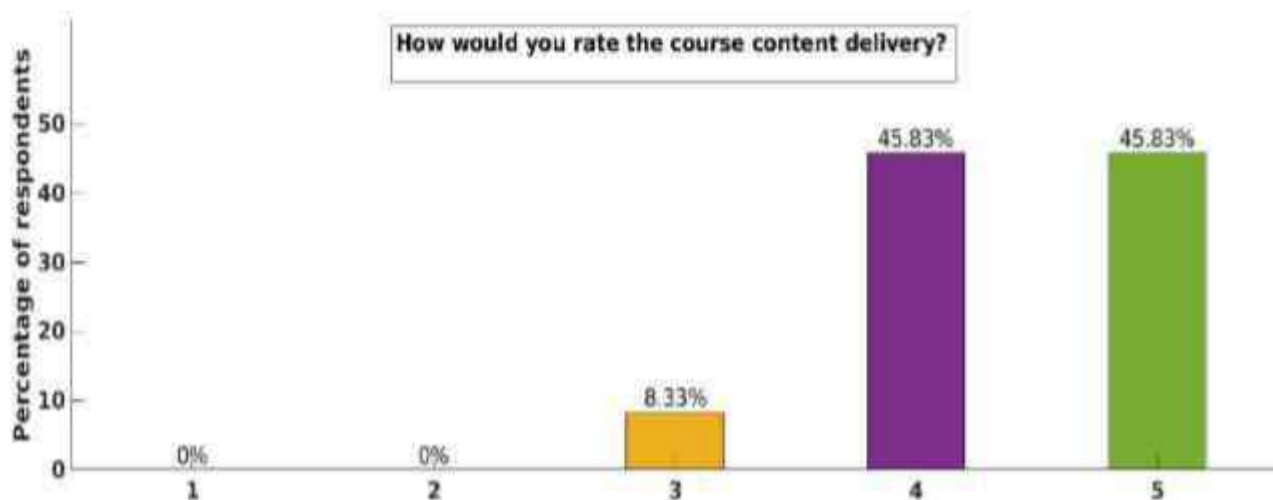
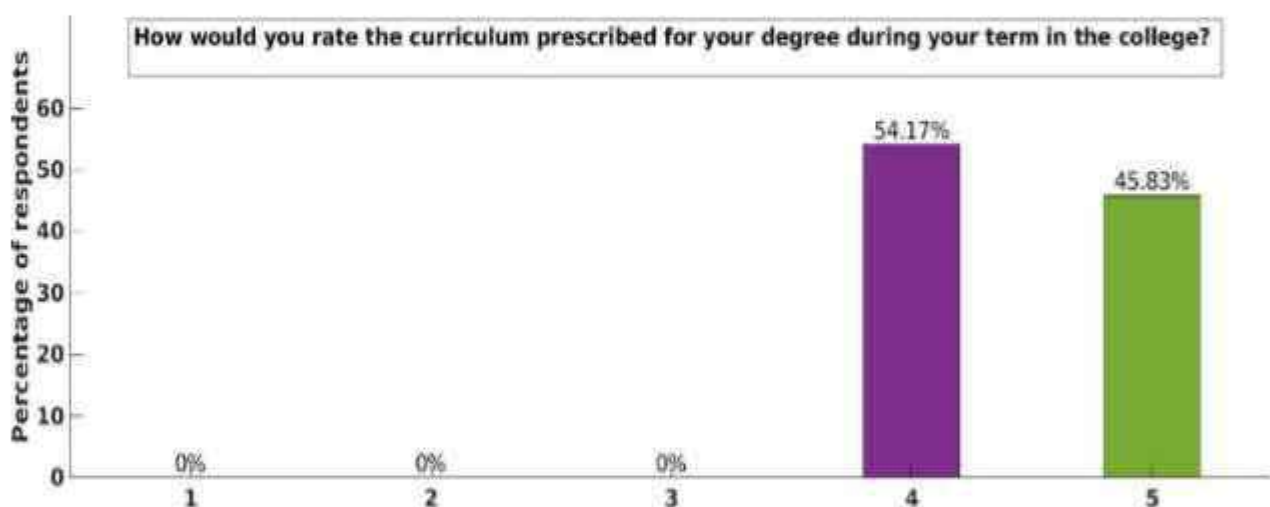
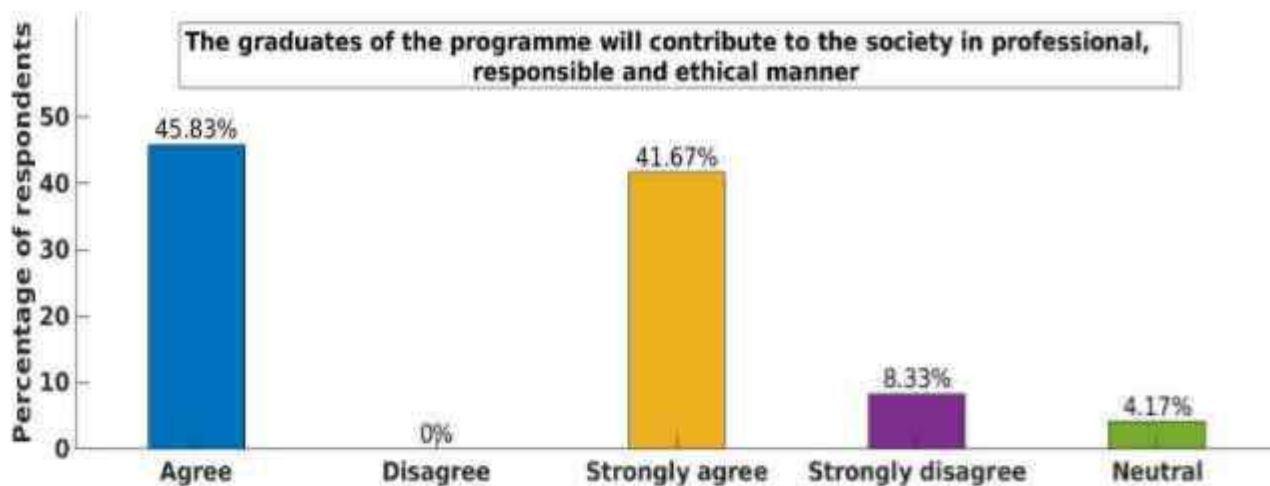
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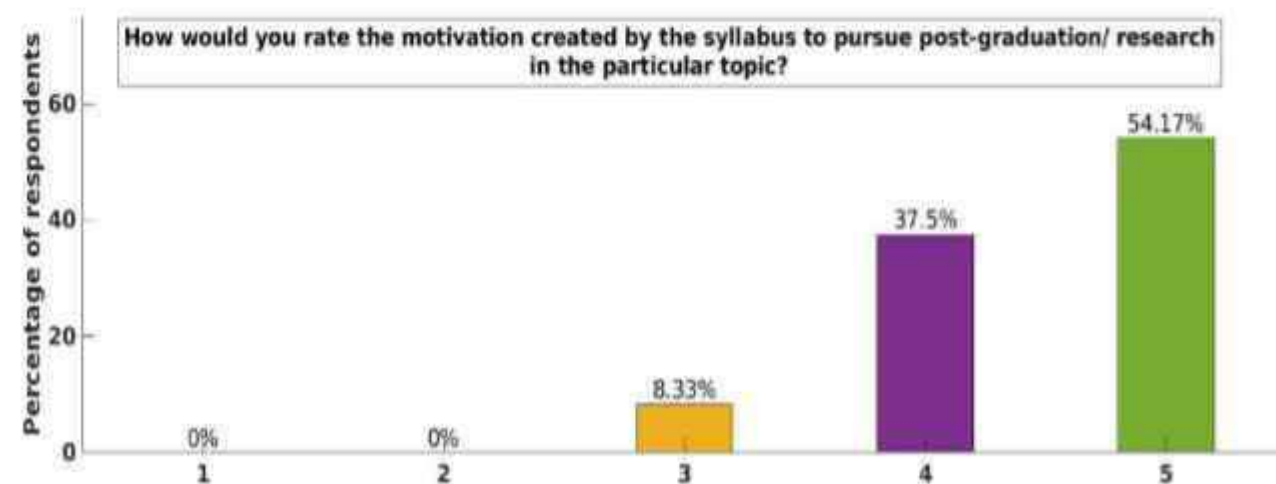
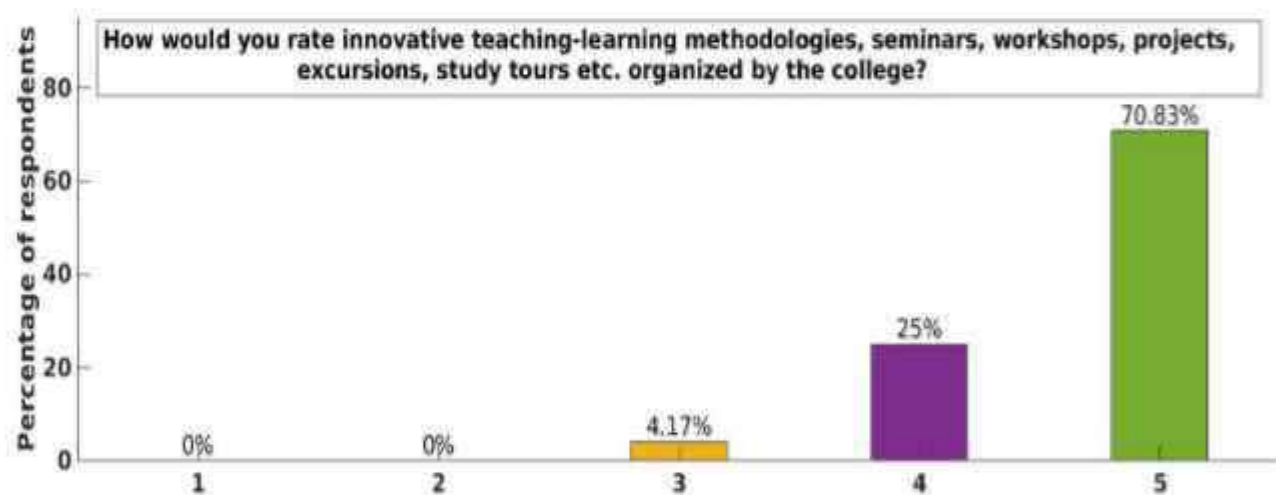
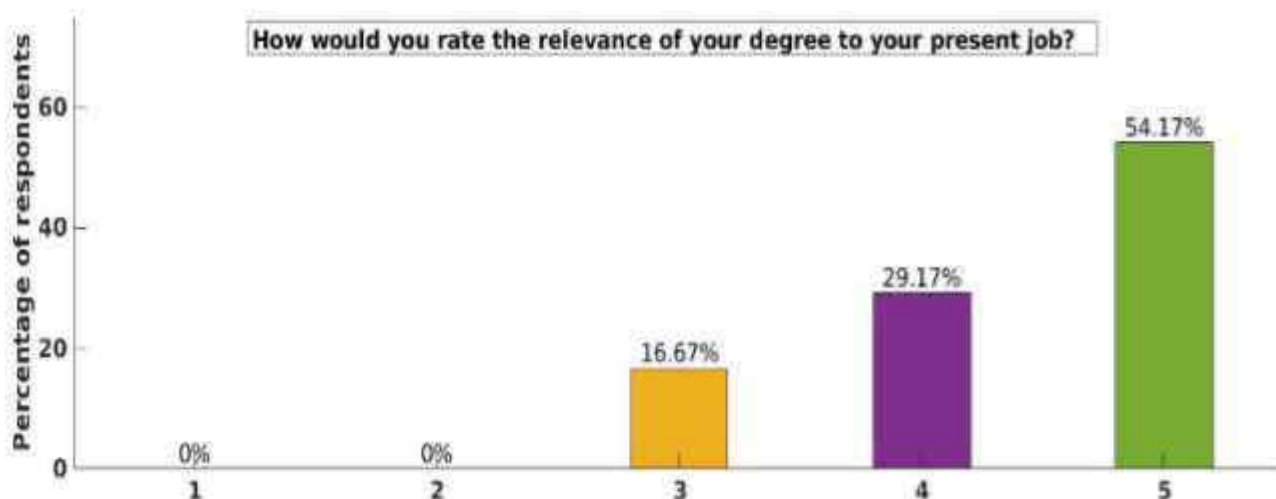


## Report on the analysis of alumni's feedback on curriculum design & review 2022-2023

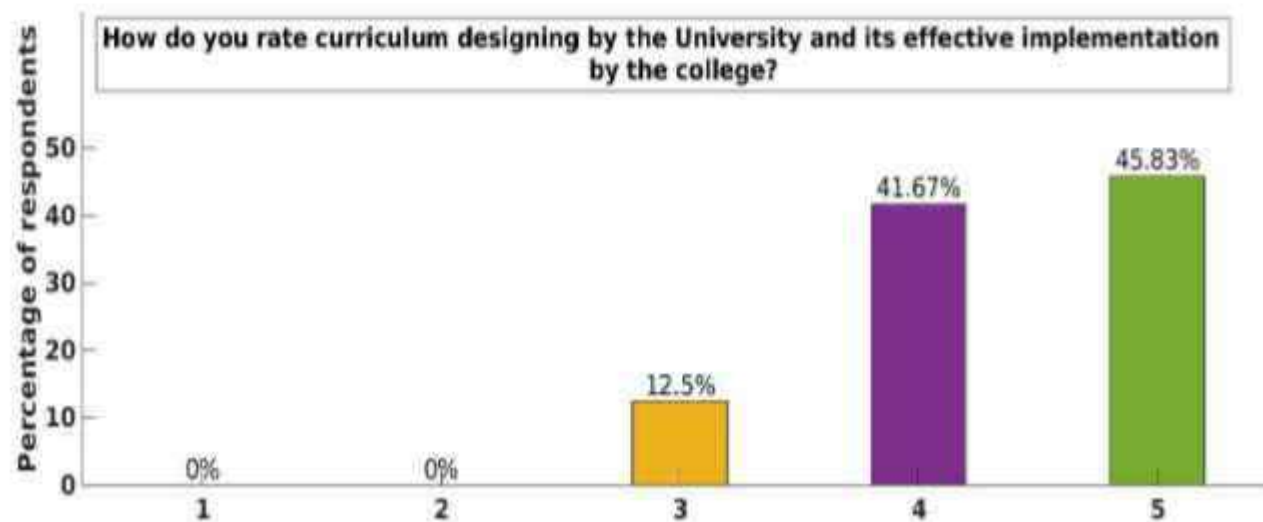
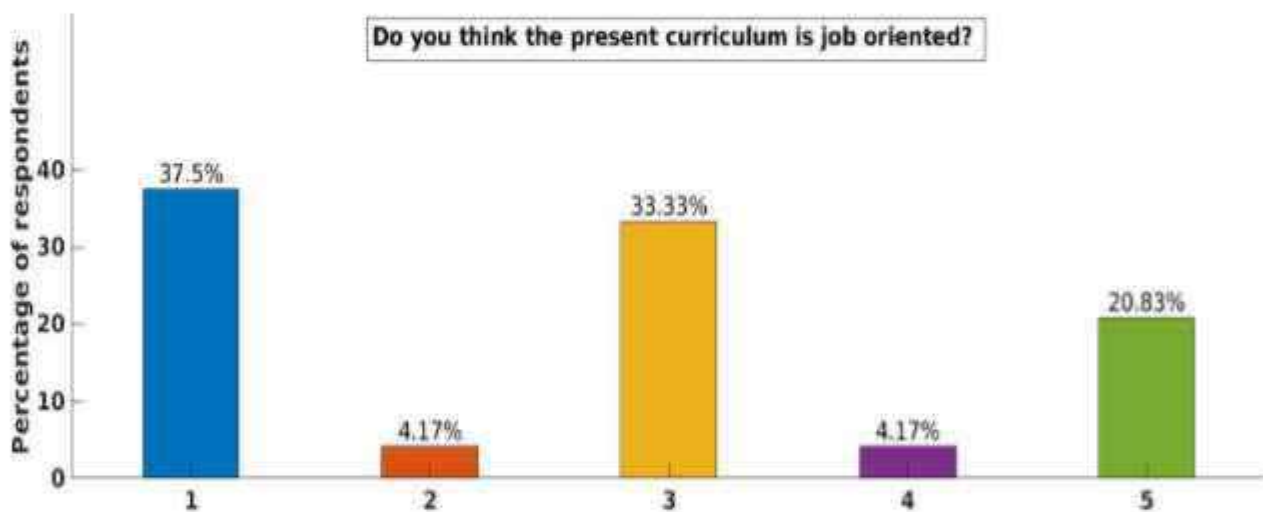
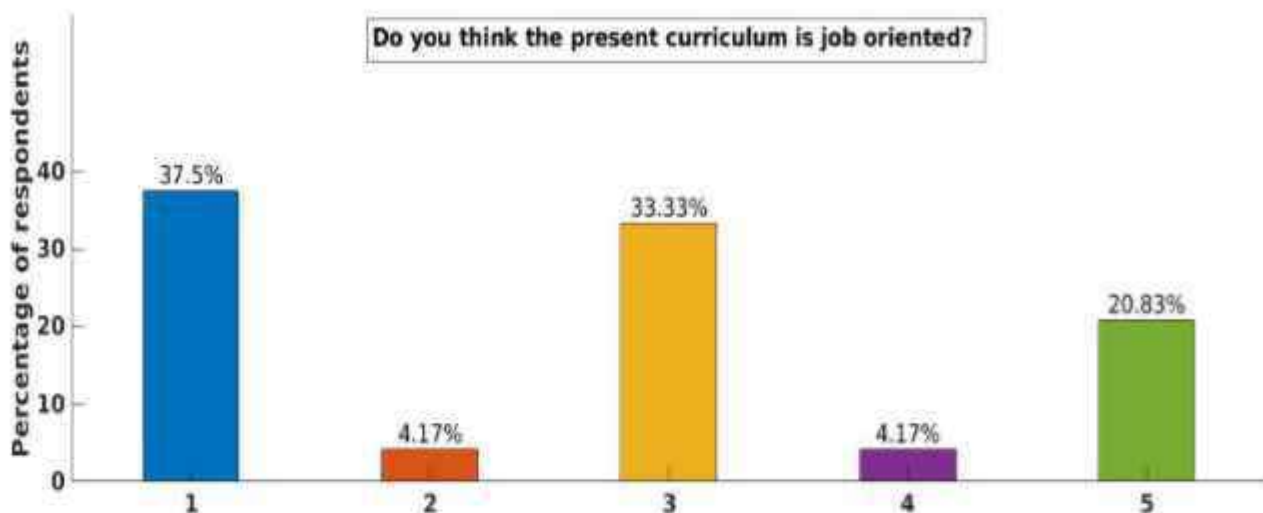




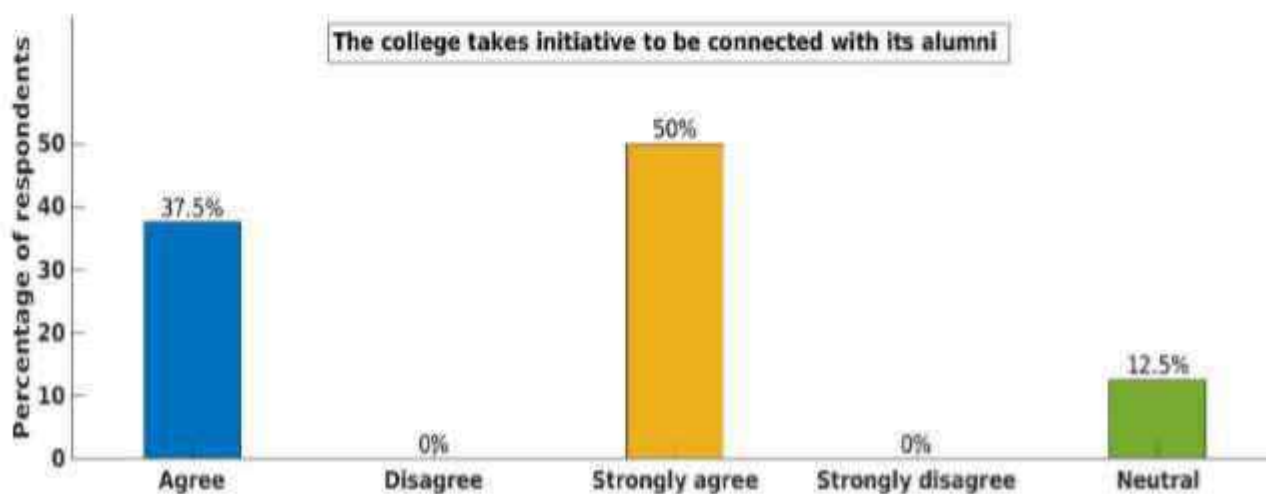
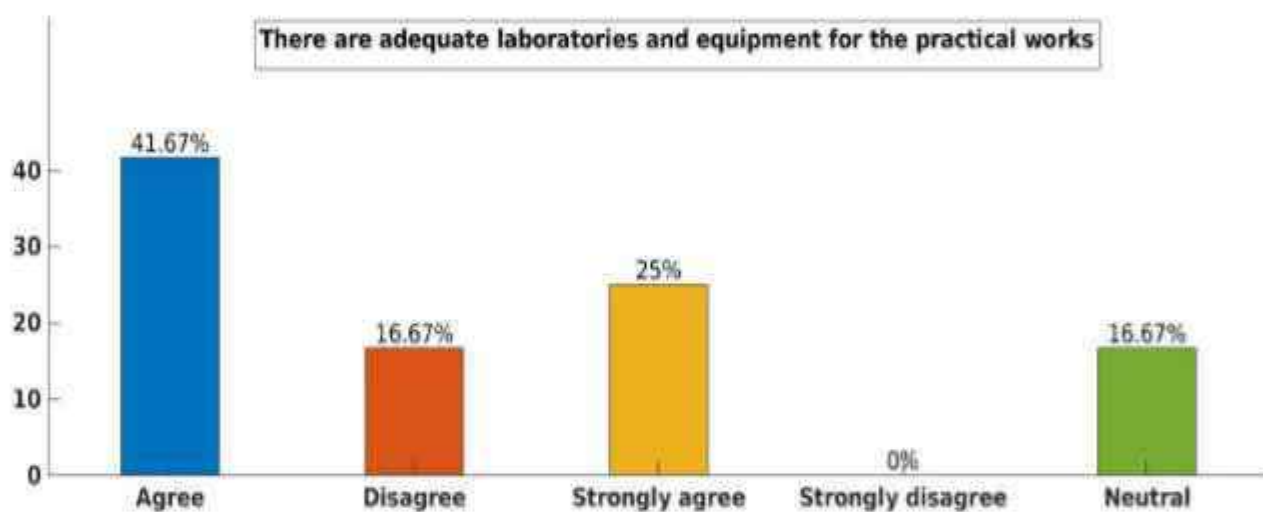
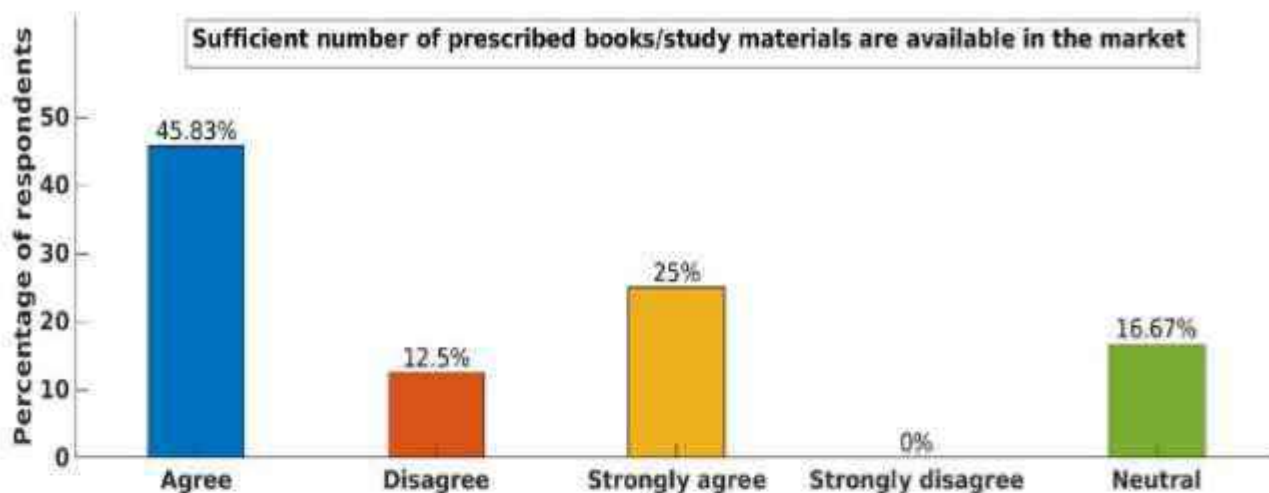
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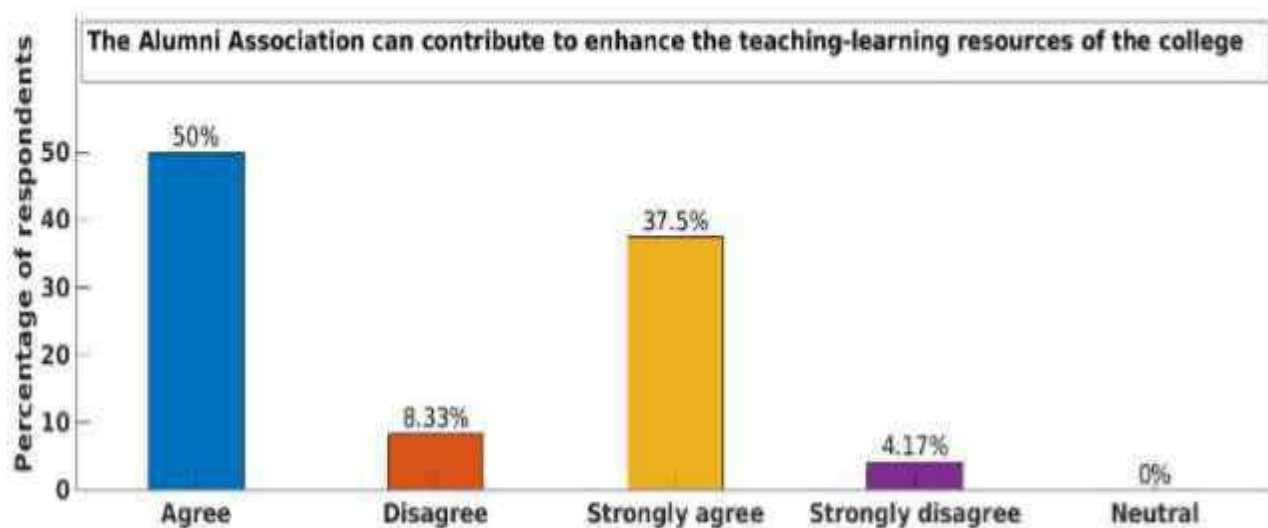
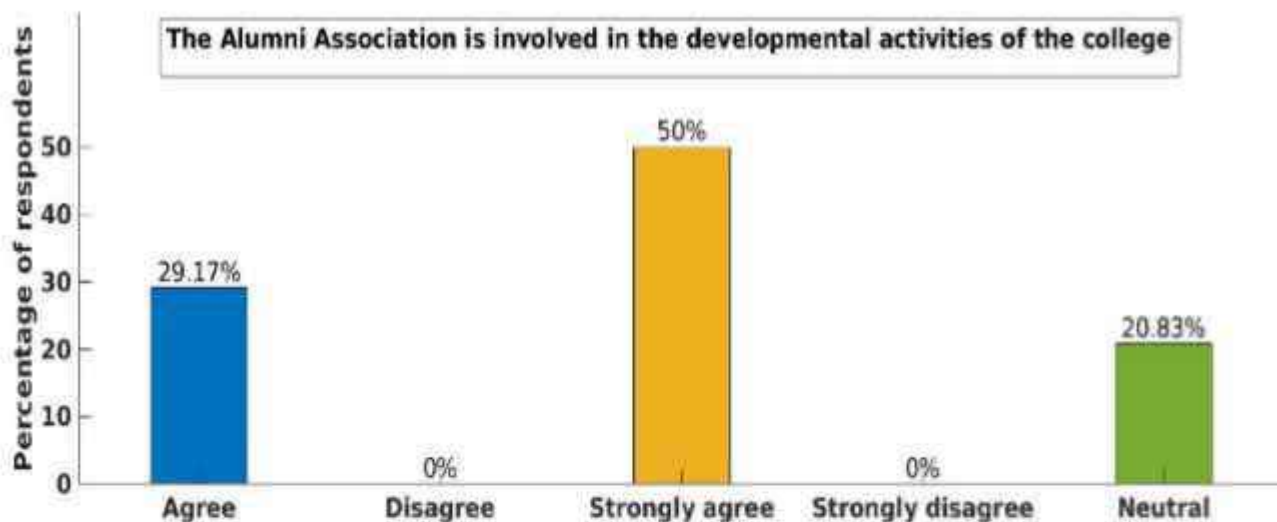


## Report on the analysis of alumni's feedback on curriculum design & review 2022-2023





## Report on the analysis of alumni's feedback on curriculum design & review 2022-2023



# Feedback Report

# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA  
Pin - 722122, West Bengal

Mob:- 6297976619

e-mail: principalramananda@gmail.com  
Website: www.ramanandacollege.org



Estd : 1945

UGC Recognized & State Government Aided Constituent College

Under the Bankura University (dt.-01.01.2017)

(Re-Accredited by NAAC 3<sup>rd</sup> Cycle at B<sup>++</sup> Level)

Ref. No.....

Date.....

From : Principal  
Secretary, G.B.

## Report of the Feedback on Curriculum Design and Review 2022-2023 (Collected from Different Stakeholders of Ramananda College)

In accordance with the guidelines laid down by the National Assessment and Accreditation Council (NAAC), the Internal Quality Assurance Cell (IQAC) of Ramananda College collected feedback through the circulation of online questionnaires to the different stakeholders of the institute, namely, students, teachers and employers. The questionnaire predominantly focused on various issues related to the CBCS curriculum design under the affiliation of Bankura University. The collected feedback was analysed to assess the points of view of different stakeholders in order to evaluate and review the advantages and shortcomings. Following are the brief summary reports of the various feedback obtained from the respondents.

### Summary report of the students' feedback on curriculum design and review:

- 46.92% of the responding students strongly agreed that the curricula offered for different courses are designed according to the needs of the students which provide them with sufficient choices and great opportunities to learn and grow. Another 37.41% students agreed to these facts while 12.68% remained neutral and 2.99% disagreed/ strongly disagreed.
- 56.93% of the responding students agreed that the curricula framed by the university is student-centric that provides rich learning experience to allow an opportunity for each individual student to prepare himself/herself for a suitable job to a great extent while 35.32% of the respondents thought that such options are moderately available and another 6.25% stated that the curricula provide such opportunities only to some extent.
- 38.86% respondents agreed that the syllabi are in tune with the state/national level examinations in the relevant subject. Another 45.65% respondents strongly agreed to these propositions while 14.67% remained neutral and 0.27% chose to disagree.
- 46.2% strongly agreed while 38.59% agreed that the books listed as reference materials as well as those available in the college library are relevant, updated and appropriate. 13.04% remained neutral.
- The satisfaction level of curriculum design as per the requirement of employability/higher learning concerned was estimated to be at a level of 85-100% by 42.39% respondent; at levels of 70-84% and 55-69% by respectively 42.93% and 11.14% of the respondents. Only 3.53% respondents opined it to be below 55%.



*[Signature]*  
Principal  
Ramananda College  
Bishnupur, Bankura



# RAMANANDA COLLEGE

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Website: www.ramanandacollege.org



**Estd. 1945**

UGC Recognized & State Government Aided Constituent College  
Under the Bankura University (dt.-01.01.2017)  
(Re-Accredited by NAAC 3<sup>rd</sup> Cycle at B<sup>++</sup> Level)

Ref. No.....

Date.....

From : Principal  
Secretary, G.B.

- The completion of syllabi for the courses offered was opined to be at a level of more than 85% by 44.57% respondents while 39.13% and 10.33% respondents stated that respectively 70-84% and 55-69% of their syllabus was completed.
- 61.68% students strongly agreed that the teachers thoroughly prepared for the classes and 35.6% found them satisfactory. Also, 70.11% responding students found the communication of the teachers with their respective classes to be always effective, 16.02% found it to be effective sometimes while 12.5% said it was just satisfactory.
- 61.14% respondents stated that they were informed about the CBCS system and the outcomes of different programmes and courses every time at the beginning of the semesters. 26.36% respondents stated that they were usually informed about the same and 8.15% opined that such initiatives were taken only occasionally.
- 50.27% respondents strongly agreed while 36.96% also agreed that the college has an effective internal evaluation system in place. 10.6% remained neutral and about 1.09% respondents disagreed.
- The availability of well-equipped laboratory facilities in the institute was rated to be at a level of below 55% by 7.88% respondents, 13.86% and 43.21% respondents rated the same at levels of 55-69% and 70-84% while 35.05% stated it to be at a level of 85-100%.
- 49.73% students responded that the institute regularly take active interest in promoting internship, student exchange, field visit opportunities for students. 32.61% and 12.77% stated that such initiatives are taken often and sometimes, respectively.

## Summary report of the teachers' feedback on curriculum design and review

- Only 1.19% teachers strongly agreed and 10.71% teachers agreed that the curricula and syllabi framed by the Bankura University are suitable to the programmes and cater to the needs of the students to prepare them for a suitable job. 11.90% respondents remained neutral on these accounts.
- 55.16% respondents agreed while 11.9% strongly agreed that owing to the sufficient number of choices and being in tune with the state/national level examinations, the curricula prepared the students for suitable jobs in future. 23.81% remained neutral while 9.12% disagreed.
- 60.71% respondents agreed and another 13.1% strongly agreed that the objectives of the syllabi, programme outcomes and course outcomes are well defined and clear to teachers and students. 14.29% remained neutral while 11.9% disagreed.



  
Principal  
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From : Principal  
Secretary, G.B.

- 48.22% agreed, 6.54% strongly agreed, 29.76% opined neutral and 15.48% disagreed with the proposition that the teachers maintain regular communication with the member/convenor of the syllabus committee/BOS regarding reviewing/redesigning/ modifications of the syllabi/curricula and the University takes into account the opinion of the faculty members during curriculum revision.
- Among the respondents 51.19% agreed and 6.54% strongly agreed that the syllabi/curricula framed by the Bankura University give the teacher scope to be innovative in teaching learning and evaluation practises. 27.38% remained neutral.
- Among the respondents 61.3% agreed and 9.52% strongly agreed that the teachers enjoy necessary freedom to propose, modify, suggest, and incorporate new methods in teaching-learning activity by adopting new techniques/strategies of teaching. 19.64% remained neutral while 9.52% disagreed.
- 51.19% agreed, 14.29% strongly agreed, 22.62% were neutral and 11.9% disagreed that the curriculum provides opportunity for conducting research and project related activities.
- 53.57% agreed, 15.48% strongly agreed, 21.43% were neutral and 9.52% disagreed that the books prescribed/listed as reference materials and those available in the college library are relevant, updated and appropriate.
- 58.33% agreed, 14.28% strongly agreed, 14.28% were neutral and 13.09% disagreed that the college provides adequate e-resources like e-ShodhSindhu /Inflibnet N-list/ NDL, etc. for faculty members and students.
- 61.9% respondents agreed and 19.05% strongly agreed while 15.48% remained neutral and 3.57% disagreed that the college supports experimental learning through project work/field work prescribed by the affiliating university.
- 55.95% respondents agreed and 33.33% strongly agreed that the teachers inform the students in detail about the CBCS pattern in the beginning of the semester. 9.52% remained neutral on this point.
- 61.9% respondents agreed, 26.19% strongly agreed and 10.71% remained neutral that the teachers of a department prepare module/division of syllabus for its effective implementation.

## Summary report of the employers' feedback on curriculum design and review

- 60% respondents agreed, 20% remained neutral and 20% strongly disagreed that the curriculum prescribed by the university is effective in developing innovative thinking while



*[Signature]*  
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Ref. No.....

Date.....

From : Principal  
Secretary, G.B.

80% agreed and another 20% strongly agreed that the syllabus is effective in developing skill-oriented human skills.

- 80% agreed and the rest 20% were neutral that the current syllabus is job-oriented, skill-based and value oriented.
- 40% strongly agreed and 20% agreed that there is adequate flexibility available in the choice of subjects to the students. Another 40% remained neutral.
- 60% of the respondents agreed and 20% opined neutral that the present syllabus helps in bridging the gap between industry, society and academic institution. 20% disagreed.
- 80% agreed and 20% disagreed that the courses offered provide solution to issues relevant to Gender, Environment and Sustainability.
- On a scale of 1-5 around 60% respondent rated the effectiveness of curricula for development of entrepreneurship as highly effective, and another 40% rated it as satisfactory.
- 40% of the respondents agreed and 20% strongly agreed while the other 20% disagreed that the employers discuss and take action on the feedback submitted by the different stakeholders. 20% remained neutral on this point.
- 40% respondents strongly agreed and the other 40% agreed to the fact that the employers are committed to provide adequate books/journals and e-resources to the library for effective implementation of the syllabi. 20% remained neutral.
- 40% agreed, 40% strongly agreed and 20% disagreed that the employers are committed to provide adequate equipment to the laboratories for effective implementation of the syllabi.

## Summary report of alumnis' feedback on curriculum design and review

- 41.67% respondents strongly agreed, 45.83% agreed and 4.17% were neutral and 8.33% strongly disagreed that the programme will contribute to society in a professional, responsible and ethical manner while 33.33% strongly agreed, 37.5% agreed, 20.83% were neutral that the present curriculum is job oriented.



*[Signature]*  
10/16/2024  
Principal  
Ramananda College  
Bishnupur, Bankura



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Ref. No.....

Date.....

From : Principal  
Secretary, G.B.

- On a scale of 1-5, the relevance of the degree to their current job was rated at 5 by 54.17% of respondents, at 4 by 29.17% and at 3 by 16.67% of respondents among the alumni.
- 50% strongly agreed, 29.17% agreed and 20.83% were neutral that the alumni association is involved in the developmental activities of the college while 37.5% of the respondents strongly agreed and 50% agreed that the alumni association can contribute to enhance the teaching-learning resources of the college. In this regard, 12.5% disagreed/ strongly disagreed.
- 50% strongly agreed and 37.5% agreed that the college takes initiative to be connected with its alumni. Another 12.5% remained neutral.
- Innovative teaching-learning methodologies, seminars, workshops, projects, excursions, study tours etc organized by the college and few other parameters were rated by the alumni on a scale of 1-5. Such endeavours were rated at 5 by 70.83% of respondents, at 4 by 25% and at 3 by 4.17% of respondents.
- On a scale of 1-5, the motivation created by the syllabus to pursue post-graduation or research in particular topic was rated at 5 by 54.17% of respondents, at 4 by 37.5% and at 3 by 8.33% of respondents among the alumni.
- 41.67% agreed and 25% strongly agreed that there are adequate laboratories and equipment for practical works. 16.67% opined neutral and 16.67% disagreed.
- 25% strongly agreed, 45.83% agreed and 16.67% were neutral that there are sufficient number of prescribed books or study materials available in the library.
- On a scale of 1-5, 45.83% respondents rated the curricula during their time at college as well as the course content delivery at 5, 50% rated the same at 4. Only 4.16% rated at 3.
- 20% of the respondents strongly agreed while another 40% agreed that the employers discuss and take action on the feedback submitted by the different stakeholders.
- On a scale of 5, 87.5% rated the curriculum design and its effective implementation at a score above 3.
- 54.17% respondents strongly agreed, 29.17% agreed, and 4.17% disagreed that the teachers engaged the class for full duration and completed the syllabus in time. 12.5% remained neutral on this point.



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Date.....

Ref. No.....

From : Principal  
Secretary, G.B.

## Analysis of Student Satisfaction Survey 2022-2023

As per the guidelines Student Satisfaction Survey was conducted. The responses are analysed and evaluated at the level of the institution by taking into consideration the perspectives of the students. The survey helps to assess the prevailing environment of teaching-learning in the institute along with the infrastructural strengths and weaknesses for improvement in future. The response of the students regarding various aspects are as following -

- Over 82.01% respondents of the survey stated that more than 70% of the syllabi for different courses were completed successfully.
- It was evident from the survey that the students of the institute share a healthy relationship with their teachers and the environment of teaching-learning in the institute is satisfactory. On an average around 90% of the respondents opined that the teachers prepare for the classes and effectively communicate with the students to illustrate the concepts through examples and applications.
- About 54.44% of the respondents thought the teachers fully identified their strengths and encouraged them with providing right level of challenges while another 31.18% thought that the teachers were reasonably able to do the same.
- On the other hand, about 63.31% respondents thought that the teachers were able to identify their weaknesses and helped them to overcome the difficulties every time. Another 25.42% thought that the teachers were usually able to do so.
- On an average about 82.37% respondents stated that the institute takes initiatives to promote student-centric experiential learning and an active interest in promoting internship, student exchange, field visit opportunities for students.
- More than 90% respondents were of the opinion that the internal assessment and evaluation processes of the college are fair and the performances are discussed with the students for their benefit.
- About 39.33% respondents opined that their satisfaction level with well-equipped laboratory / virtual classes/learning material was between 70-84% while another 37.89% stated it to be in the range of 85-100%. For about 14.39% responding students the same was at a level of 50- 69%.
- On an average about 77.82% of the respondents were satisfied with sufficient number of reference books, study materials, previous year question papers in library and browsing centres for net surfing.



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- 46.52% of the respondents agreed and another 37.65% strongly agreed that the digital database facility, (NDL, N-List) open access journals, e-books, e-resources, e-contents can help in further development the students' research interest.
- About 75-80% of the respondents on an average opined favourably regarding the online mode of teaching-learning while nearly 13% remained neutral towards the different aspects of this mode of education.
- About 1.44% respondents strongly disagreed, 1.44% disagreed, 13.43% opined neutral, 44.12% agreed and 39.57% strongly agreed to the proposition that blended mode of teaching is the future of education system.
- About 1.2% respondents strongly disagreed, 5.52% disagreed, 12.71% opined neutral, 47.48% agreed and 33.09% strongly agreed that online classes are creating digital divide.
- About 4.08% of respondents disagreed, 11.99% remained neutral and 45.8% agreed while 36.69% respondents strongly agreed that in virtual classroom network glitches are a common factor for effective teaching learning process and it can mar the classroom atmosphere.
- 84.18% respondents think that attainment of programme and course outcome can help them to overcome the ordeal to achieve professional/ vocational competency while 10.31% respondents find it occasionally helpful.
- 43.16% respondents agreed and 44.12% strongly agreed that all departments organize webinars, students' seminars, exhibition, and presentation of model and charts for enhancing the experimental, participative, and problem-solving learning experience in lieu of student-centric method. 10.31% remained neutral on this point.
- 41.49% respondents accepted and 36.69% strongly accepted that the online education will not be an alternative to institutional education. 18.71% are not sure about this.



  
Principal  
Ramananda College,  
Bishnupur, Bankura



# Home Assignment

Bengali

# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream : English honours. UID : 22171103025

Name : Somnath sen.

Roll No. 142 Date 29/05/2023 Signature Of Invigilator.....

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2/06/23.



1) পোর্টমোর্তার গানের নামক কে কোন গ্রামে চাকরি নিয়ে যেতে গিয়েছিল? রতনের অন্ধকার  
স্মরণে মাও?

→ পোর্টমোর্তার গানের নামক পোর্টমোর্তার উলপুর্ন গ্রামে চাকরি নিয়ে যেতে  
গিয়েছিল।

রতন বলে- ছোটো বয়সের সত্যিকারী বালিকা, পোর্টমোর্তার যাকোব  
বগাছ বগে দেয়; কি সময়ে সাত দুইনা আসলে, তার মন ছিল অক্ষুণ্ণ মত, দম্বীও  
বিলম্ব কিছু, তার ছিল না, লেখক জানিয়েছেন, 'বিবাহের বিলম্ব অস্বাভাবিক দেখা  
যায়, লেখকের প্রকৃত্যে ধারণ করিয়ে দেওয়ার কোনো প্রয়োজন ছিল না,  
বনের মন প্রকৃত্যে বেগানোদিনও জানিনি,

কারণ প্রকৃত্যে বহিরাগত পোর্টমোর্তার উপর প্রথম বিদ্যার বগে তাঁকে চাকুরী  
ছোট গৃহে মাঝে চিঠি পাঠে দিয়েছিল বটে, কিন্তু গ্রামের রতনের উপর  
শ্রমণ বেগানো প্রথম যেমনত পালন, রতনের মনকে জাগিয়ে তুলেছিলেন  
পোর্টমোর্তার, বগে তিনি তাঁকে সত্যতে আনন্দ করলেন, তার জীবনের  
কামিনী কুনতে চলেছেন প্রকৃত্যে নিজের বাড়ীর কথা জেবে জানালেন, বগে  
যে উন্নত গৃহে বগে চলে যে আনন্দে ছিলেন সে তার বাল্যকালের

কথা ধারণ মেখে : তারও মা ছিল, কিন্তু মস্তে বিলম্ব দেয় প্রীতির অক্ষক  
ছিল- ছোটো ছোটো মনে আনন্দে সে বগে না যোগে। পোর্টমোর্তার বগে  
সে ছোট উর্থে বুঝে যে মেও মানুষ, তারপরে পোর্টমোর্তার গুলে অক্ষুণ্ণ,  
নোগুল্যামে ঠাণ্ডা মেখে গুলে সেবা মেতে গুলে বগে পোর্টমোর্তার

মনও সেই মতে জাগত গুলে উর্থেছিল, রতন যে তার নিচুক বগে মনে  
নয়, পোর্টমোর্তার আত্মীয় জুলে মস্তে সুবন্ধন বলে যে নিজেই মনে  
বগেছিল, পোর্টমোর্তার মস্তে আপন মস্তে না, বালিকা রতন তার  
বালিকা মস্তে না- সেই মস্তে সে জুলে দম্বী অক্ষক বগে বগে,  
যেদ্যে ডাকল, মস্তে গুলে মেখে মস্তে মস্তে বগে বগে, মনে মনে

সে দম্বী মনে মস্তে মস্তে মস্তে, সে ছোট উর্থে বিসদ প্রধান, মে  
কোনো প্রকৃত্যে পোর্টমোর্তার বগে জুলে সে মস্তে পালন, পোর্ট-অক্ষক  
প্রকৃত্যে বগে সে কবলে অক্ষক বগে বগে লাগলো, প্রম পোর্ট-অক্ষক  
মনে তার বগে মস্তে- প্রকৃত্যে মস্তে তার মনকে জাগিয়ে দিলে গুলে  
বগে সে জুলে মস্তে মস্তে মস্তে মস্তে, অক্ষক, প্রম ছোটো গুলে

প্রকৃত্যে বালিকার মস্তে- জুলে মস্তে মস্তে মস্তে মস্তে মস্তে মস্তে মস্তে মস্তে



27 Advocate general - ~~সহকারী~~ ✓

Board of trustees - ~~আইনগণ~~ ✓

Chief election commissioner - ~~নির্বাচন~~ ✓

Free lance journalist - ~~বিভিন্ন~~ ✓

Hypothecated - ~~নামস্বত্ব~~ ✓

Industrial tribunal - ~~শ্রমিকানাযন্ত্রণা~~ ✓

Laissez faire - ~~অধীনতা~~, ~~অধি~~ ~~বাণিজ্য~~ ✓

Maternity leave - ~~পুত্রোত্ত~~ বা ~~মাতৃপুত্রকালীন ছুটি~~ ✓

Xenophobia - ~~বিদ্বেষ~~, ~~বিদ্বেষ~~, ~~বিদ্বেষ~~ ~~বিরোধিতা~~ ✓

Discussing officers - ~~কর্ম~~ ~~আধিকারিক~~ ✓

# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream : Arts (Hons) UID : 22171102020

Name : Soumen Lohar

Roll No. 109 Date 29.5.23 Signature Of Invigilator.....

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2/06/23.

















4) राजका पब्लिसिटी  
 ~~~~~ 0 ~~~~~

- 1) Advocate general - आविबुत ईकिन ✓
- 2) Board of trustees → अष्टि मयड / अष्टि-लुवाडे ✓
- 3) chief Election commissioner - कविमवारु विवाहेत लुवाडे
- 4) Disbursing officer → वृथुन अकिमवारु ✗
- 5) Free-lance journalist - विवाहेतु वृथुन आ, वादिक्
- 6) Hygiene catered → कुरुवदुन लुवाडे ✓
- 7) Industrial Tribunal - शिखर विवाहेतु ✓
- 8) Laissez faire - अमारी नीति, ✓
- 9) maternity Leave - आशुतु कुरुडे ✓
- 10) xenophobia → विनेकी लुवाडे वा विनेकी लुवाडे-शिखर उअवदुन लुवाडे ✓

Teacher's Signature

~~~~~ 0 ~~~~~



UG 2<sup>nd</sup> SEMESTER PROGRAMME MIL HOME ASSIGNMENT

2022-2023

COURE ID :- 20100

STREAM :- (II) Arts (Hons)

UID :- 22171102021

NAME :- Roki Mourai

ROLL NO :- 103

DATE :- 29/05/2023

SIGNATURE OF INVIGILATOR



2। 'देवराज्य आवीत शक्ति जे आमार मन' कविता-कोत काव्यप्रकृ  
कठ अर्थ्याक कविता ? कविता-वि अलहाव अरुकेसे आलोचना  
कर, (वि+8)

=> अलहाव - ए प्रथिमीर एकदल आलेन मात्रा अले कलेत अभाउ  
अरुआर लेउ, इतिम समत करे तिउले आवीना करले  
बुकि आकलाउ श्रम, ठाकर एकमात्र बीरता- एक अउ, उगा मिश्रा,  
एदि लेखकर वा अर्थ्याक कविता,

अभुआरिउ लेव - आतमार्गेर आवीक, प्रोजीअ एर देवराज्य आवीत  
शक्ति भुंजेत, किउ कणआरले इव दिअरि ले अकण

"इव इव कण आरले आमार मत,  
मौउ मौउ भुंजेले कवि रुम आले बुकावत,"

कण आरले इव दिअरि ले अकण कउत लेले, इकीकुनाश्र लेआर,  
मथर इरि बीर लेआर, एम मासिउ जात, अरि इकलेरु लेआरि  
दिउले आबरा आरि, एम विठिल इरु इरु एमले वेङ्गन दिके  
दिके अुरे, जाते, कले, इम-इःले आआउ- अरुआउ, लाला  
अलेर हके - वा विठिल इरुअर इरुअर कउत आरि इरुअर कारकि,  
ठाेर इरु आलार विठिल कणक बुलाके आरिअर आमार उमर उ-  
आमार उमर ए आमार अकण ए परिअर,"

ए कणनिकेतन एअके मत उ इरि अरिअर आकुरां निअके

সহায়তা করে তোলায় মণি কোলা বাহুরিলেই, বর্ষান্তর  
বলেছেন,

সুখিও তবে সুখি কোথায় থাকি,  
সুখি কোথায় আছে,  
আপনি প্রাণ সুখি কীভাবে করে,  
কীভাবে জীবন কাটে;

কমরে মানুষের সুখি হাজার ও বলেই আকীর্ণত মানুষকে  
সুখির পক্ষ ধরে ধরে হবে, মারা অজ্ঞানে মণি আবদ্ধ থেকে  
মানুষের জীবন আত্মনির্ভর করে, অজ্ঞান সমাজ ত্যাগ করে ইচ্ছিম  
সমস্যা করা অসুখ্যত বাকী, শ্রেয়স অধিকালে প্রত্যেকটি মানুষের মণি,  
আজ্ঞা শ্রেয়সের আকীর্ণত অবস্থান অবস্থ, তাই নিজের বা মণি  
দ্বারা মিলে জীবন করার কোলা প্রয়োজন লেই, তাই জীবনের মে  
কোলা জামগায়ে বসেই শ্রেয়সের আকীর্ণতা করে অক্ষয়, নিজের জীবন  
বা গিরিগুণের সৃষ্টি মানুষের, কিন্তু অজ্ঞান থেকে আকীর্ণত মণি-  
মে বা জোলা কর্মের আকীর্ণত সুখি হতে পারে. বিশ্বজ্ঞান আছে, তাই  
অজ্ঞানের ক্ষেত্রে এবং আকীর্ণত মানুষের ক্ষেত্রে সৃষ্টি মানুষের  
সুখি হয় বিশ্বজ্ঞানের সুখির প্রয়োজন,



২. 'মোহনমাজার' গল্পের নামক কে? কোন গ্রামে চাকুরি নিয়ে  
মেতে- হমেছিল? রতনের অস্বস্তি পরিচয় নাও.

⇒ 'মোহনমাজার' গল্পের নামক হল রতন;

৫ ভিত্তি উলাপুর গ্রামে চাকুরি নিয়ে মেতে- হমেছিল;

মোহনমাজার গল্পের রতনের চরিত্র বিশ্লেষণ -

রতন মাতো- তেরো বছরের অনাথিনী সালিকা, মোহনমাজারে মান-  
জীম কাজ করেছেন, যিকি সময়ে মাত্র দু-বেলা আহার, তার মনে ছিল  
অক্ষুণ্ন মত, চাকী ও কোব কিছ, তার মিল না, লোক জনিমেলিল, বিনাহের  
বিক্রম অক্ষুণ্নতা দেখা বরন, লোকের একথা দ্বারা স্মরণ করিয়ে দেওয়ার  
কোনো প্রয়োজন ছিল না, নতের মনে একথা কোনদিন জালা নি, কারণ  
প্রকৃতি বহিরাগত মোহনমাজারের ওপর প্রত্যেক বিস্তার করে তাঁকে  
চাকুরি বেড়ে হুইয়ে মনের বাবার মিক্রান্ত সৌজে দিয়েছিল বটে, কিন্তু গ্রামের  
বেয়ে রতনের ওপর যেমন কোনো প্রকার তেলতে পারেনি, রতনের মনকে  
জাতিয়ে তুলছেন মোহনমাজার বরা, তার জীবনের কাহীনী স্মরণে রাখেন  
এই মিজের মাজির কথা শুকে কোতালেন, যে তার বাস্তব কালের কথা  
দ্বারা- বেয়ে, তারও মা ছিল মিজের মতো বিক্রম বেয়ে- মজির অধক  
যাওে হাইক নিয়ে- জালাকে যে কত না মেলতে, মোহনমাজার কথায়  
যে বেয়ে উইয়ে- বুঝতে যে সেও মানুষ তার পলেই মোহনমাজার  
হলেন আমুদু, মোহনমাজার মাজির পরা- কাল হাতের সেবা মেতে  
ইচ্ছা করে মোহনমাজার মনেও সেই ইচ্ছা জগত হুইয়ে উইয়েছিল  
রতন তো তার বিকক কাজের লায় না, মোহনমাজার আত্মীয়-



জনৈক মনী প্রকৃতন বলে সে নিজেকে মনে করেছিল, মোক্ষমাধুর  
ইদ্রা আদন রইলো না, বালিকা রজন আর বালিকা রইলো না,  
সেই মুহুর্তেই সে জননীম মন অধিকার করে বসলো, তেঁয়ি ডাকল  
ওঘরী হাওয়ার এবং অন্যান্যি জিহ্নরে বসে কাঁদল, মনে মনে  
সে দাদাবাবর মনিসি আশ্রয় হুলে উঠলো, সে ছেজে ওচীর বিদ্য  
প্রমাণেই, মোকোলা প্রকৃতন মোক্ষমাধুর কাহে আর সে থাকতে  
পারলে না, মোক্ষ-আধিসনে প্রসঙ্গিত করে সে কেবলই আশু বিসর্জন  
করতে লাগলো, এই মোক্ষ-আধিস মনে তার কাহে: অধির ওম্মান  
কার দেবতা তার মনকে জগিতা দিলে সেজে, কিন্তু সে জগতের দেবতার  
মুষ্টি এড়িয়ে লাভে, অতএব সেই মোকোলা জগে একটা বালিকার  
চিও-জগতলোর চিত্র বড় সুন্দর করে একেলে "স্বীকৃতনাথ",





बिभाज्य प्रमापयिजाएत नविधि

बिभाज्य प्रमापयिजाएत विचार विषययुक्त यत्कि 3 प्रमाप नविजेत  
विषययुक्त एतत् एतद्विषय 20. बिभाज्य प्रमापयिजाएत विषययुक्त  
शुलि आलाचना यत्ता 20 विषययुक्त

i) प्रामाणिकीकरणः - बिभाज्य प्रमापयिजाएत आदि प्रामाणिकीकरण  
प्रक्रियायि एतद्विषय 20 प्रक्रियायि भागिण  
बिभाज्य प्रामाणिकी मीति - यीति, आदुत - यत्ता, आगत - आगत  
इत्यादि बिभाज्य एतत् यत्ता.

ii) प्रामाणिक प्रचलनः - आर्थवित्तिक उद्भाव यत्तायुक्त मर्दि मर्दि एतत्  
मान मर्दिणयुक्त यत्तायुक्त यत्ता यत्ता  
एतन्नि बिभाज्य मर्दिणयुक्त मान - मर्दिणयुक्त यत्तायुक्त

iii) प्रामाणिक निपटुराः - प्रमाप सुवृत्तियुक्त निपटुराएत यत्ता  
यत्तायुक्त यत्ता 20 निपटुराएत यत्ता. 20  
निपटुराएत मर्दि बिभाज्य यत्तायुक्त यत्तायुक्त

iv) प्रामाणिक एतद्वि :- प्रमाप एतत् प्रामाणिक एतद्वि एतत् 20  
बिभाज्य एतत् यत्तायुक्त यत्तायुक्त यत्तायुक्त  
एतत् प्रामाणिक एतद्वि विषययुक्त यत्ता

3











① ब्रह्मचर्य व्रत : ब्रह्मचर्यव्रत विना न भवत्युद्योगः

नर निमित्तं अहिंसानि अहमन्तरं स्त्रीयं आचरन्  
इह उद्योगस्य सर्वप्रथमं विना, उद्योगस्य न भवति  
विशेषतः यद्यत् अहिंसानि अहिंसानि अहिंसानि  
प्रत्येकं वृद्धिदीप्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं  
उ अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं  
नारायणस्य अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं  
ब्रह्म ब्रह्मचर्याय नारायणस्य अयुक्तं अयुक्तं अयुक्तं  
गुणानि विना अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं  
अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं  
अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं अयुक्तं

② अहिंसा व्रत : अहिंसा व्रतमेव उच्यते।

अयं अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य  
अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य  
अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य

③ अहिंसा व्रत : अहिंसा व्रतमेव उच्यते।

अयं अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य  
अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य  
अहिंसा व्रतस्य अहिंसा व्रतस्य अहिंसा व्रतस्य







# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

6/10  
2/6/23

Stream: History (Hon)

UID: 22171104035

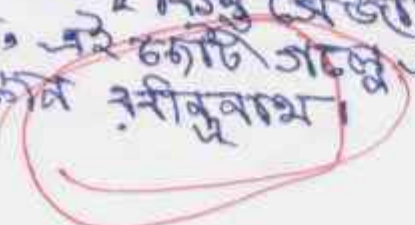
Name: Nojma Chowdhury

Roll No. 251 Date 29/05/23 Signature Of Invigilator.....

- ১। 'পোস্টমাস্টার' গল্পের নায়ক কে? কোন স্থানে চাকরী নিয়ে যেতে হয়েছিল? বৃত্তের সংক্ষিপ্ত পরিচয় দাও
- ২। উল্লিখিতঃ- বৃত্তর মনোভাৱে কতকটা কবিতার অন্তিমী বাস্তবিকতা পোস্টমাস্টারের মাধ্যমে কাঙ্ক্ষিত করে দেয়। ত্রিক শব্দে নায়ক হ'লে আত্মা, তার মন ছিল অতুল মত। দাবীও শেষকিন্তু তীব্র ছিল না। মেথক জেনিমেটোর, বিস্ময়কর বিশেষ সম্ভবনা দেখা যায়। মেথকের একথা স্মরণ করিলে দেওখার কোনো প্রত্যক্ষ ছিল না। বনের মনে একথা কোমলদিনও জ্বালায় নি। কবিতা প্রকৃতি বহিরাগত পোস্টমাস্টারের ওপর প্রভাব বিস্তার করে চাকরী ছেড়ে গলে কিলে খাবার সিদ্ধান্তে পৌঁছে দিয়েছিল বটে, কিন্তু প্রাণের মেয়ে বৃত্তের ওপর তৎপর কোনো প্রভাব তৎপরে পালে নি। বৃত্তের মনকে জাগিয়ে তুলেছিল পোস্টমাস্টারের বস। তিনি তাকে অর্থে আনন্দ কবিতার। তার জীবনের কাহিনী শ্রবণে গাইলেন এবং বিশেষ ব্যক্তি কথা তাকে দেখানোর। বৃত্তের মেয়ে উল্লীত বৃত্তের মেয়েতো যে আত্মজ্ঞেয় ছিল না সে তার বাস্তবিকতার কথা স্মরণ করে। তার ও মাকিল, পিতার সঙ্গে বিশেষ ছদ্ম-প্রীতির সম্বন্ধ ছিল - গোষ্ঠী গাইবে। নিজে আনন্দ মেয়ে না মেয়ে পোস্টমাস্টারের কথায় মেয়ে তৎপরে উল্লীত সুমেয়ে মেয়ে মেও মানুষ।



তামনেই পোস্টমাস্টার এর অক্ষয়। ভাগসময় শাখাখা  
 কোমল হাতে মেঝে পেতে ইচ্ছা করে পোস্টমাস্টারের শব্দও  
 চাই ইচ্ছা উৎসাহ এবং উল্লেখিত বসন্ত ভেদে তার বিচ্ছিন্ন  
 ব্যাণের মেয়েনয়, পোস্টমাস্টারের আত্মীয় ভবের মতী এজন্য  
 বলে যে বিশেষকৈ মনে করেছিল। পোস্টমাস্টারের ইচ্ছা  
 আপন বস্তুনোনা। কলিকতা বসন্ত আর কলিকতা বসন্তনোনা-  
 চাই মৃত্যুতেই হয় স্বর্গীয় পদ অধিকার করে বসন্তনোনা বৈদ্য ভবন,  
 সুখী মাতৃমাল এবং আনারাণী শ্রমের সঙ্গে কাঠাল। মনে মনে  
 হয় নাদাবানর মর্দিক আত্মীয় হয়ে উল্লেখ্য যে ভোগে  
 শিবদ পমালেন। যে- কোনো একজন পোস্টমাস্টারের কাছে  
 জায় যে মাকতে জানেনা। পোস্ট-অফিসটা প্রদীপ্তর করে  
 হয় হেরনেই অক্ষয় বিবরণে কবলে লাগলো। এই পোস্ট-অফিস  
 যেন তার কাছে মর্দিক ও মর্দিকের দেবতা তার মনকে ছুটিয়ে  
 দিয়ে গেছে কিন্তু সে জগতের দেবতার দৃষ্টি এড়িয়ে গেছে।  
 অতএব, এই চোটি গল্পে একটি কলিকতার চিত্র বড় সুন্দর করে  
 একেগের বস্তুনোনা।



3



১" বৈরাগ্য সাধনে মুক্তি যে আশ্রয়" কবিতাটি চোম  
কাম্যসুন্দর কত অংখ্যক কবিতা? কবিতাটিই মূলতঃ  
অংখ্যক আশ্রয় দেয় (১+৪)

বৈরাগ্য সাধনে মুক্তি, যে আশ্রয় নয়।  
অংখ্য বন্ধন- মাঝে মহানন্দময়

লভির মুক্তির স্থান।

ভূমিকায় - এ পৃথিবীতে একজন মানুষ জন্মে যারা মনোকার  
অন্য- অংখ্যক চোখে ইচ্ছায় দমন করে নিজেই সার্থী করলে  
মুক্তি মোক্ষমাতৃ হয়। তাদের এছাড়া শিবনা- ব্রহ্মসভা, দেও  
মিথ্যা।

অসুখসার্থী ভাবঃ- সারমাতার সার্থী, যোগীরা তাই বৈরাগ্য  
সাধনে মুক্তি পূন্যে। কিন্তু কাম্যসুন্দরই যে নিরিত্ত জন্মে  
অসুখসুখ, ছুখছুখ কামি আগরে- জামার মন।

খোঁজ খোঁজ খুঁজলে পাবি কদম মাঝে হৃদয়।

কাম্যসুন্দরে দুই দিগেই যে অনেক বসন মেলে। বসিদ্ধান্তের  
ভাষায়, মনের দুই ধারে যে কাছা, যে মনোর এখুঁয়, যে মন  
পাতা, যে পামির গাঁন, সেই বসের জেগে সার দিগেই জামি  
জামি, যে বিচিত্র বস্তু হয়ে মেলে বেড়ান দিকে দিকে- মনে, সানে-  
পুণ্ডে, চিত্রে, বর্ষে বর্ষে, কানে, সম- দুঃখের আঘাতে- অংখ্যক  
ভালো- মনের- দুখে - তার বিচিত্র বসের বাহুরে কাম্যসুন্দর  
অনুর করেছি। তার বসখোলায় বিচিত্র কাম্যসুন্দরে জামি  
সোনার তাঁর পড়েছে জামার মন, এ জামার এমেনে অবিভ্য  
এ কাম্যসুন্দর মেলে মন ও দুষ্টি সার্থী জামিই বিজে  
সুখমাই করে জামার মনে যেই বাহাদুরি নেই, বসিদ্ধান্ত  
হলেই চেন,

‘মুক্তি? ওরে মুক্তি কোথায়,  
মুক্তি কোথায় জামে

জামনি প্রভু মুক্তি বাঁধি পদে  
সার্থী সার্থী কামে।’



স্বাভাৱে মানুহৰ সৃষ্টি। হাৰাৰ ও বন্ধনই সাধাৰণ মানুহৰ  
 সৃষ্টিৰ পৰা সৃষ্টি বেলে হ'লে। কিন্তু ইন্ধন মানুহ সৰীৰ ও  
 প্ৰাণতিল তিৰি হ'লে প্ৰথম তি তেৰিয়া। মানুহ সংসাৰে  
 যেনে আৰম্ভ মেতে মানুহেৰ প্ৰথম আত্মবিভাগ কৰে।  
 তাহাও ইশ্বৰেৰ মেৰা কৰেৰ এক অগ্ৰিমে তাহা সৃষ্টিৰ  
 হ'লে। সংসাৰ সন্মাত ত্যাগ কৰে ইন্ধিয় দমন কৰা  
 সন্তোষ। কিন্তু সংসাৰে আৰম্ভ মেতে ও মানুহ সৃষ্টিৰ  
 নিজেৰ ইচ্ছা কৰিছে চাৰেৰা কৰেৰ পৰে তাহাৰি আছিল  
 মোৰী পৰা। ইশ্বৰ অধিকাৰ প্ৰভাৱেৰি মানুহৰ সন্তো। তাই  
 মানুহেৰি মেৰা কৰেৰি এক মেতে তাহাৰি ইশ্বৰেৰ  
 আশীৰ্বাদ পাওমা সন্তোৰ বলে ধৰেৰ। তাহাৰি ইশ্বৰেৰ  
 অৰ্হাৰ সৰ্হা। তাই নিজেৰে হা পৰিৰি দুৰাৰে গিমে সাধনা  
 কৰাৰ উৎসাহ প্ৰয়োজন বৈ। কাৰেৰ প্ৰাৰ্থীৰ প্ৰতিষ্ঠি  
 দুৰাৰি পৰিৰ। সংসাৰে তাহা অৰ্হাৰ। তাই প্ৰাৰেৰে  
 উৎসাহ প্ৰাৰ্থনাৰে ইশ্বৰেৰ আৰ্হাৰি কৰা সন্তো। নিজেৰ  
 অৰ্হাৰ হা গিৰি গুৰাৰ বন্ধেৰ নিজেৰ সাধনাৰ কৰেৰে সৃষ্টি  
 কৰি মাৰেৰ। কিন্তু সংসাৰে মেতে সাধনাৰ সন্তো  
 উৎসাহ কৰেৰে সৃষ্টি হ'লে পৰে বিষ্ণুসংসাৰেৰ। তাই সন্মাত  
 উৎসাহ এক সাধনাৰ মানুহেৰ মেতে কৰি মাৰেৰে সৃষ্টি  
 এক বিষ্ণুসংসাৰেৰ সৃষ্টিৰ প্ৰয়োজন

3







শৈলিক গম্ভীরতা ও ব্যঙ্গ্য ভাষায় স্বাধীন প্রকাশ বহু। এ  
ব্যঙ্গ্য ও তীব্র বাংলা ভাষার ব্যঙ্গ্যকরী/শুদ্ধীকরী/সম্প্রসারক বহু  
লেখেন। লিপিমালা, ব্যঙ্গ্যবহু ও অপ্রাচ্যবহু অধ্যয়ন কাম্যবহু ও  
উচ্চ শিক্ষার ক্ষেত্রীক-বাহ্যে-ওরুমাধু সঞ্চিত কাম্যে-

৬

→ শুদ্ধীকরী কাম্যি সুব-খোদীকৃত্যে-ঐক্যে ২০-৫১/শুদ্ধীকরী (৫)  
কাম্যবহু (৫) অধ্যয়নকাম্যে-সক অতিজাত স্বাক্ষর পরিবর্তে-অনুপ্রবেশ  
কাম্যে-অতিজাত স্বাক্ষর-গাওঁ/নিভা-সক অধ্যয়-দেবকৃত্যে-  
ঐক্যে-অভা অধ্যয় (৫)। বাংলা অধ্যয়কাম্যে-সক লেখিত।  
কাম্যবহু ঐক্যে-অধ্যয় অধ্যয় কাম্যে। অধ্যয় কাম্যে-খোদীকৃত্যে  
অধ্যয়-অধ্যয়/সিদ্ধি-সিদ্ধি অধ্যয় কাম্যে-সিদ্ধি অধ্যয়-প্রথম  
কাম্যে-উপন্যাস প্রাচ্যকাম্যে-সক অধ্যয়-অধ্যয় কাম্যে-সিদ্ধি অধ্যয়  
ঐক্যে-অধ্যয় ২০/৫ উপন্যাস লিখিত। অধ্যয় অধ্যয় ২২/৫  
ঐক্যে-সিদ্ধি উপন্যাস অধ্যয় অধ্যয় কাম্যে-সিদ্ধি

১) শুদ্ধীকরী কাম্যি-৫ অধ্যয়-কাম্যে/সিদ্ধি অধ্যয় বাংলা  
অধ্যয়/সিদ্ধি অধ্যয় অধ্যয় অধ্যয় অধ্যয় অধ্যয় অধ্যয়  
সিদ্ধি উপন্যাসের পদ্ধতি অধ্যয় ৫ উপন্যাসের-অধ্যয়-সিদ্ধি অধ্যয়  
অধ্যয়/সিদ্ধি অধ্যয়-অধ্যয়





# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

7/10

Stream: Musie (Hons) UID: 22171105004

Name: Soumen Datta

Roll No. 1036 Date..... Signature Of Invigilator.....

১. বৈরাগ্য আৰ্হনেৰে স্মৃতি মে তোমাৰ নয়। - কবিতাৰি  
"নৈবেদ্য" কাব্যসংগ্ৰহৰ '30' নম্বৰ কবিতা।

কবিতাৰিৰ মূল ভাৱ ৪

বৈরাগ্য আৰ্হনেৰে আৰ্হনে স্মৃতিকে চ্যুতয়া হয় না।  
বহু সংস্কাৰ জীৱনৰ কাৰ্মিক আৰ্হনেৰে স্মৃতিকে লাভ কৰা  
যায়। সংস্কাৰেৰে সকলো যতি-প্ৰতিযোগিতা অগ্ৰ সংস্কাৰ  
কৰে চলিব আৰ্হনেৰে জীৱন হয়- অৰ্থে আৰ্হন।

২. 'চোৰাটমহাশয়' শাল্মলিৰ স্মৃতি বহন ১.  
শৈলা পুৰাণ-ব্ৰাহ্মণ-চাক্ৰী নিযে যোগে হৈছিল।

কবিতাৰিৰ মূল ভাৱ ৪

বহন ছিল বায়ো-ভেৰে বহনৰে এক আনাতিলি  
আনাতিলি। জে চোৰাটমহাশয়ৰ স্বাভাৱিক বস্তু বহন দিত। জে বদান  
জে মেত জুৰি বস্তু বহন যোগে। শাল্মলিৰ প্ৰকৃতি কেবলমাত্ৰ  
আনাতিক ও জৈবগোচৰিক-আৰ্হন বহন বাহননি, শাল্মলিৰ প্ৰাৰ্থন দুটি









ବୃତ୍ତର ସମ୍ପର୍କିତ ହେଲେ ତୁ ତାର କାର୍ଯ୍ୟ କରେ, କାର୍ତ୍ତବ୍ୟ ହୋଇ  
 ଥିଲା ନା, ଥିଲା କଲ୍ୟାଣ ଭେଦ ଅଛି କି ନା ତାହା ତୁ ତୁମ୍ଭେ  
 ଭାବରେ କହେ ନିର୍ଦ୍ଦୋଷ, ଏହାରେ ତୁମ୍ଭେ ହୋଇ ଯାଉଛ  
 ଏହାକୁ ବାଧ୍ୟ ତୁ ଭାବରେ ଧରା, ବାମ ଯାମ ସ୍ୱପ୍ନର ନିର୍ଦ୍ଦୋଷ  
 କାର୍ତ୍ତବ୍ୟର ଗୁଣର ନିର୍ଦ୍ଦୋଷ ନିର୍ଦ୍ଦୋଷ ହୋଇ ଯାଉଛ  
 ସିଦ୍ଧି ସୁଖ କର୍ତ୍ତବ୍ୟ ଗୁଣର ତାର ଭାବରେ ତୁମ୍ଭେ ହୋଇ  
 ବୃତ୍ତର ତାର ଧାରା ବସୁର କାର୍ଯ୍ୟ ହୋଇ ଭାବରେ ତାର ନା ଥିଲି ତୁ  
 ଦେଖି ଦେଖିବେ ସମ୍ଭବ ହୋଇ ଭାବରେ ସୁଖର ତାର ନା ଥିଲି  
 ଭାବରେ କର୍ତ୍ତବ୍ୟ ହୋଇ ତାର ନା ଥିଲି ତୁ ଦେଖିବେ କାର୍ତ୍ତବ୍ୟର  
 କର୍ତ୍ତବ୍ୟ ହୋଇ, ତୁ ବସୁର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର  
 କାର୍ତ୍ତବ୍ୟର ତୁ ନାହିଁ କରୁଛ,

୧) ଦେଖାଯିବ କାର୍ତ୍ତବ୍ୟର ସୁଖର ତାର ଭାବରେ ନା କାର୍ତ୍ତବ୍ୟର ତାର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ

୨) କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର

କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର  
 କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର ତାର ଭାବରେ କାର୍ତ୍ତବ୍ୟର





# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

8/10

Stream : ENGLISH (HONS) UID : 22171103020

Name : GARGI BHATTACHARJYA

Roll No. 135 Date 29/05/2023 Signature Of Invigilator.....

4:- প্রতিটি শব্দকে বাংলা পরিভাষায় উল্লেখ করো।

- (i) Advocate General → মহাবিদ্যুত ✗
- (ii) Board of trustees → ~~আদি পক্ষ~~
- (iii) Chief Election Commissioner → নির্বাচন ~~নির্বাহক~~ <sup>মহাবিদ্যুত / প্রধান</sup> <sup>কমিশনার</sup>
- (iv) Disbursing officer → ~~গুপ্ত~~ <sup>আর্থিক / বিতরণকারী</sup> <sup>কর্তব্য</sup>
- (v) Free-lance journalist → ~~বিলম্ব~~ <sup>স্বাধীন</sup>
- (vi) Hypothecated → ~~দায়বদ্ধ~~
- (vii) Industrial Tribunal → ~~কিছু~~ <sup>কর্মসংস্থান</sup>
- (viii) Laissez faire → ~~অসহিষ্ণু~~ <sup>অসহিষ্ণু</sup> <sup>নীতি / অসহিষ্ণু</sup> <sup>নীতি</sup>
- (ix) Maternity leave → ~~মাতৃকালীন~~ <sup>ছুটি</sup>
- (x) xenophobia → ~~বিদেশি~~ <sup>বিদ্বেষ</sup>



2:- => সুবিনোদনাথ মুখোপাধ্যায় (পোস্টমাস্টার) গণেশ্বর নামক কলকাতা থেকে উল্লাপুর প্রান্তে চাকরি করতে আসেন পোস্টমাস্টার।

=> (পোস্টমাস্টার) গণেশ্বর প্রবাস নগরী চকির বৃত্ত, বৃত্তের মধ্যে যাবো - উত্তরোচ্চর, মোটোবেলায়ে উঁক বসে - যা চলে মাগুরায় যে আসা ছিল, এই উল্লাপা প্রান্তে বালিকা পোস্টমাস্টারের সঙ্গে কড়াফল করে দিও, সে ফাল্গুন পবিত্র দু-বেলা পিঠি তৈরি হোত পিঠি।

উল্লাপা বালিকা বৃত্তের বিয়েক কোনো সমস্যা আর নেই, তা নিয়ে উঁক মনে বিলাস উদ্বেগ হোয়া যায়, সে কুচকুচ হয়ে দ্বিভঙ্গি দাদামুখ সঙ্গত করে মনে দিয়ে কবুত আর তার অপর সঙ্গরে সঙ্গিত হয়ে উঠে, পোস্টমাস্টারের উল্লাফ সেজে দেওয়া হালকা জোজড় করা, জল তোলা ইত্যাদি করে দিও, ফাল্গুন মাসকে মোটুকু সঙ্গরে পিঠি আর পোস্টমাস্টারের এক লেখা পত্রিত লিখেছিল, তার মতিল আর মনোমোহন ও সিমের আশ্রয়ে প্রমাণ পাওয়া যায়।

বৃত্ত সুস্থি অস্বাভাবিক ছিল, তাই যখন পোস্টমাস্টার প্রান্তে অস্বাভাবিক পরিবেশে গুরুত্ব হয়ে পড়েছিল, তখন তার স্মরণে লেখা করে, তাকে সঠিক সঙ্গরে ধারক হাওরালো, কুচি দেওয়া ইত্যাদি মহামন্ত্রাভাব পালিকা করে, এতে তার মাসুলানি সুদয়ে প্রকাশ ঘটেছে।

বৃত্ত দুব জেতিলি- ছিল, পোস্টমাস্টার সুদয় হয় উল্লা পর যাকি ফিরে মাগুরায় ফরা বলনা বৃত্ত ও তার সঙ্গি সেও জেতিলি, কিন্তু পোস্টমাস্টার তাকে নিম্ন মাত চায়নি, সে ফাল্গুনে পোস্টমাস্টার তাকে কোনো



সাধারণ স্থানে তা নিচে অবস্থায়- স্থ, বসন্ত  
অভিমানী বন দাদামবু- কোলা সুখা প্রাচীনা কলোনি,

পোড়োকাঠোবু সজা বিক্রেত জলপাতি মর্মান্বী হয়ে  
উঠেছে। সে সজা যখন চকিগতি ও প্রকৃতিক হয়ে  
উঠেছে, অতএব, এই মেটা সালে অকটি- বালিকা  
ছি - ডাম্বল-এর ছি- বহু সুন্দর করে প্রকাশ  
বুঝিয়েছে।

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# Ramananda College

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UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream : ARTS (HONS) UID : 2217110323

Name : Srija Mondal

Roll No. 20 Date 29/5/2023 Signature Of Invigilator.....

8. প্রতিটি কথের বাংলা প্রতিশব্দ উল্লেখ করুন ?

উঃ-

1. Advocate General :- অ্যাডভোকেট জেনারেল
2. Board Trustees :- অফিসার্স
3. Chief Election commissioner :- নির্বাচন কমিশনার
4. Disbursing officer :- ব্যয়ন আফিসার
5. Free-lance Journalist :- ফিল্ড - অ্যাডভোকেট
6. Hypothecated :- দায়বদ্ধ
7. Industrial Tribunal :- কিন্দ্রনগরপর্ষি
8. Laissez faire :- অকর্ষি - স্বেচ্ছা, অকর্ষি অবিজ্ঞ
9. Maternity Leave :- অমৃত্যু ছুটি, অমৃত্যু কালীন ছুটি
10. Xenophobia :- বিদেশী - বিদ্বেষ; বিদেশী - বিদ্বেষিত



২. 'শোভাযাত্রা' নামের নামক কে? কোন গ্রামে চারুসী নিয়ে যেতে হয়েছিল?  
বর্তনের অংশিত্ব পরিচয় দাও?

উ:- শোভাযাত্রা নামের নামক বর্তন.

▲ বর্তন বর্তন নামে - তেঁতে বর্তনের উদ্ভাষক বালিকা. শোভাযাত্রা  
মার্কিন নামে বর্তন দেয়, চিকিৎসায় পায় ৫ বলা যাত্রা,  
বিশেষ বিশেষ অধ্যয়ন তার নেই বললেই চলে, যে শোভাযাত্রার  
মার্কিন আধ্যাতিক নামে বর্তন বর্তন দেয়, চিকিৎসায় যেতে পায়.

● শোভাযাত্রার আঁকি বাতলাপ করে জানতে পারি: বর্তনের নামের  
চোখে পড়া গেছে বর্তন শোভাযাত্রা. তার বেশি দেখা গেল ছিল,  
বর্তন তার অন্য অন্য করে গেছে. তারই আঁকি স্মৃতি বলতে  
দুই জন ছিলেন ~~কিন্তু~~ বর্তনকেই বর্তন নামের ~~ক~~ বর্তনকে ~~দ্বি~~  
দ্বিগুণি দ্বিগুণি আঁকি বর্তন বর্তন.

▲ বর্তন অত্যন্ত সুস্থিত হলেও যাত্রাপত্র পারিবেদের, গেজেটে এর  
সুস্থিত বিজ্ঞান ~~ক~~ বর্তন. শোভাযাত্রা গেজেটে ~~ক~~ বর্তন  
অন্তরে গেজেটে দেখা যায়, ~~ক~~ বর্তন বর্তনকেই বর্তন  
বর্তন বর্তন গেজেটে বর্তন হলেও. বর্তনকেই বর্তন ~~ক~~ বর্তন  
বর্তন বর্তন বর্তন ~~ক~~ বর্তন বর্তন বর্তন বর্তন  
বর্তন বর্তন বর্তন ~~ক~~ বর্তন বর্তন বর্তন.

● ২২-২৩ বর্তন এই বর্তন যে গেজেটে বর্তন বর্তন, ~~ক~~  
বর্তন বর্তন বর্তন ~~ক~~ বর্তন বর্তন বর্তন বর্তন  
বর্তন বর্তন বর্তন ~~ক~~ বর্তন বর্তন বর্তন বর্তন



পশ্চিম ও উত্তর দিকের অংশে অপরিসীম লোক - মানুষের স্রাব  
জিহ্বাভাষ্য মণি দিলে।

● নির্দিষ্ট অংশে স্থায়ী উচ্চ লোক স্রাব করে নির্দিষ্ট অংশে স্থানীয় লোক  
উল্লেখ স্থায়ী মণি দিলে বর্তমান কালে লোক পরিচয় পাওয়া যায়।

▲ উত্তর মার্কলেও বর্তমান লোক মানুষের মতো পৃথী নয়, চলে যাওয়ার  
দিনে লোক মানুষের মতন ওলক লোকের কিছু জন্ম দিতে ছেড়েছে,  
যেই বর্তমান তা পরিচয় দিলে। উল্লেখ যে লোক ছেড়েছে লোক  
মানুষের অঙ্কি হালকাও মনে লোক মানুষের মত। অসম-  
লোক মণি মণি, তার তাড়ানি তা অসমিলিত।

● এভাবে লোক মানুষ। মলক বর্তমান পরিচয় দিলে মন-বসতি মণি মণি।

NAME :- RAHIMA KHATUN

CLASS :- 2nd Sem

YEAR :- 2022 - 2023

ROLL No :- 22171103033 / 153

SUBJECT :- MIL BANGLA

PAPEER :- চারমাসিক মিল পরীক্ষা

DATE :- 29/05/23

SIGATURE OF INVIGILATOR :-

7/2 8  
জাম  
2/6/23

















1. Advocate General :- अरि विरुद्ध
2. Board of trustees :- अहि वर्ध
3. Chief Election Commissioner :- निर्वाचन अवेगिटर
4. Disbursing officer :- ग्राह आधिकारिक
5. Free-lance Journalist :- विरल आश्रित
6. Hypothecated :- दायर
7. Industrial Tribunal :- विवादात्मक
8. Laissez faire :- अहि नीति, अहि अनिच्छा
9. Maternity Leave :- अश्रुति वा अश्रुतलीन कृति
10. Xenophobia :- विद्वेगी, विद्वेष, विद्वेषि विप्रादिता

Name :- Papiya Molla

Class :-

year :- 11 sem

Roll NO :-

subject :- Miltagoli

UID :- 1172202069

Paper :-

8/10  
2/6/20

signature of Invigilator :-

"বিস্ময় সার্বভৌম স্বাধীনতা" - কবিগণের  
কবিতার কত অর্থ? কবিগণের মূল ভাব  
আমলাচল কাব্য।

অর্থ → এ পৃথিবীতে একজন মানুষ আছেন অন্য  
অন্য - অন্যের ছেড়ে স্বাধীনতা পূরণ করে নিজে  
কিছু মোহলাভ করে। তবে একমাত্র স্বাধীনতা -  
স্বাধীনতা।

অর্থসংক্রান্ত ভাব → একজন মানুষের  
স্বাধীনতা স্বাধীনতা মৌলিক। কিন্তু কামজাদার  
পারেন

"এই ভব কাম জাদার আশ্রয় মনে।  
কোন্ কোন্ মুহূর্তে মাঝে মুহূর্তে কাম  
কামজাদার এই ভাবে - যে কাম  
পাশের কাম স্বাধীনতা, যে স্বাধীনতা  
পাশের কাম। সেই স্বাধীনতা জাদার  
বিভিন্ন কাম হলে মনে মনে কাম  
বিল, কাম, কাম - স্বাধীনতা -  
- তাঁর স্বাধীনতার বিভিন্ন কামজাদার  
পাশের কামজাদার - এ কামজাদার  
পাশের কামজাদার।"

এ কামজাদার মনে মনে স্বাধীনতা -  
নিজেকে কামজাদার কামজাদার মনে  
কামজাদার মনে মনে।







Name :- Papiya Molka

Class :-

Year :- II sem

Roll No :- 238

Subject :- Mil Bangala

UID :- 1172202069

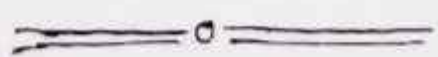
Date :- 30.5.2023

Paper :-

Signature of Invigilator :-

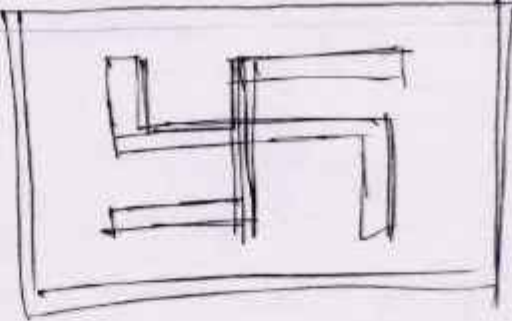
প্রতিষ্ঠান সনাক্ত করণ পরীক্ষকের উপস্থিতিতে

- ➔ ১) Advocate general :- রাষ্ট্রের সচিবালয়, উচ্চতম মন্ত্রিসভার
- ২) Board of trustees :- অধিদপ্তর
- ৩) Chief Election commissioner :- নির্বাচন মন্ত্রিসভার
- ৪) Disbursing officer :- প্রধান অফিসার
- ৫) Free - Press Journalist :- বিস্ময় - প্রকাশক
- ৬) Hypothecated :- গারান্টি
- ৭) Industri Tribunal :- শিল্প মন্ত্রিসভার
- ৮) Laissez Faire :- অসর্বাধীন নীতি, অসর্বাধীন - কারিগর
- ৯) Maternity leave :- প্রসূতি ছুটি, মাতৃস্বাক্ষরিত ছুটি
- ১০) Xenophobia :- বিদেশী - বিদ্বেষ; বিলুপ্ত - বিলুপ্তি



4

RAMANANDA



COLLEGE

9  
2/6/23



NAME :- SACHIN BAURI

UID :- 22171104030

CLASS :- Semester (II)

SUBJECT :- MILL BENGALI

YEAR :- 2022 - 23

ROLL NO :- 246

PAPER :-



Name :- Sachin Bauri  
 Class :- Sem (II)  
 Subject :- MILL BENGALI  
 Date : -

Roll no :- 246  
 UID no :- 22171104030  
 Year :- ~~2021~~

১। "বৈরাগ্য আধানে মুক্তি হৈ আমার নাম" — কবিতাটি কোন কবিত্ত্বপ্ৰকাশে  
 বহুত অধ্যয়ন করিতো? কবিতাটির মূলভাব কতগুলো আন্দোলন করে।  
 → "বৈরাগ্য আধানে মুক্তি হৈ আমার নাম" — কবিতাটি স্ববীন্দ্রনাথের  
 "পাতা" কবিত্ত্বপ্ৰকাশের অন্তর্গত গাইন।

মূলভাব :- এ প্রথিবীতে একদল মানুষ আছে যারা মনে করেন  
 সমাজ-অঙ্গার ছেড়ে ইন্দ্রিয় দমন করে নির্জনে অধিনা করে মুক্তি  
 মোক্ষলাভে হয়, তাদের প্রচেষ্টার ধারণা - 'কৃষ্ণ সত্ত্ব, তেজস্বিত্বা'।

অঙ্গরআধানে ভাব :- জ্ঞানমাত্রের অধিক, মোক্ষলাভে বৈরাগ্য আধানে  
 মুক্তি হোলে, কিন্তু রূপসাজবেই যে নিঃশিত আছে অকপিতত্ত্ব,  
 'এব এব রূপসাজবে আমার মন,  
 স্মৃতি স্মৃতি মুক্তিলাপারি ইন্দ্রিয়মাকে বৃন্দাবন।'

রূপসাজবে এব দিলেই যে অকপিতত্ত্ব মেলে, স্ববীন্দ্রনাথের প্রার্থনা,  
 'পাতার চুই ধারে যে ছায়া, যে অরুণের প্রেক্ষণ, যে মূর্ছল মাজ, যে  
 পাখির পান, সেই বসের জোড়ান দিতেই আমবা আছি। যে বিচিত্র বস্তু  
 হয়ে খেলে বেড়ান দিক দিকে, সুবে, পাতা, পুণ্ড্র, চিত্তে বর্গে, রূপে,  
 সুখ-দুঃখের আদ্যাতে - অদ্যাতে, তালা-মন্দর দুন্দে তাঁর বিচিত্র বসের  
 বাহনের বসত আমি ছায়া বসেছি, তাঁর বৃষ্টিমান্দার বিচিত্র রূপকল্পগুলোকে  
 আতিয়ে জেগার ভাব পেড়েছে আমার উপর, সে আমার প্রচেষ্টার পিঠিয়ে।'

একপন্থিবৎসল একে মনও অহুর্ষি অধিনে সামগ্রীর্ষ নিজে  
 পাড়খান বসে জেগার মর্মে বেগলা বাহা হুর্ষি জেই।





প্রতিটি শব্দের বাংলা পরিভাষা উল্লেখ করো।

- ⇒ 1. Advocate General : রাষ্ট্রের অধিকারী ডেপুটি, প্রশাসনিক
2. Board of trustees : অফিসার্স
3. Chief Election Commissioner : নির্বাচন কমিশনার
4. Disbursing officer : স্বাক্ষর অধিকারক
5. Free-lance Journalist : বিভিন্ন-স্বাধীন
6. Hypothecated : হাস্যবর্ণ
7. Industrial Tribunal : কিছুমানুষের
8. Laissez Faire : অবাধ-নীতি, অবাধ-বানিজ্য
9. Maternity Leave : প্রসূতি ছুটি, মাতৃত্বকালীন ছুটি
10. Xenophobia : বিদেশী-বিদ্বেষ, বিদেশী-বিদ্বেষিতা

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# Ramananda College

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UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream: Political Science (programme) UID: 22171209015

Name: Akash Banerjee

Roll No. 891 Date 27/05/2023 Signature Of Invigilator.....

৩। "বৈরাগ্য মাথিনে মুক্তি যে আমার নয়" - কবিতাটি কোন কণ্যস্বপ্নের  
কত সংগ্রহ কবিতা? কবিতাটির মূল ভাব সংক্ষেপে উল্লেখনা  
করুন।

→ 'বৈরাগ্য মাথিনে মুক্তি যে আমার নয়' - এটি নৈশেদ্য কাব্যের  
৩০ সংগ্রহ কবিতা, এটি কবিতার মূল ভাবনা বা সারকথা  
হল বৈরাগ্য তথা সন্ন্যাস মাথিনে দ্বারা মুক্তি নয়, স্বাধীনতা  
মুক্তি দেও চেয়েছেন ~~সংসারের~~ উৎসর্গে বন্ধন যেখানে শ্রম,  
শ্রম, কামা, মমতা ভালোবাসা রূপে উন্নত করে তাকে তার মর্মে  
দিয়ে তাই ~~অনেকেই~~ সংসার জীবন থেকে মুক্তি পাবার জন্য  
ওং স্বর্গের আনন্দের লাভে করার জন্য সন্ন্যাস জীবন লাভে  
করেন। কিন্তু কবি ~~সংসারের~~ উৎসর্গে বন্ধনের স্বার্থ দিয়ে  
স্বর্গের আনন্দকে উপলব্ধি করতে ~~চেয়েছেন~~ ওং মুক্তির  
দ্বারা ~~চেয়েছেন~~ তাই কবি ~~অন্য~~ স্বাধীনতা উক্তি -



"বৈরাগ্য কাৰ্য্যের মুক্তি যে অসম্মার নয়  
 অসম্মাৎ একান্ত জ্ঞানো মহানন্দময়  
 লভিব মুক্তির প্ৰাদ"

বিশ্ববিধিতা অক্ষয় স্থায়ী হলে এই পৃথিবী তখন বসুধীক তপ  
 গৃহীত - জসত অসম্মার পৰম্ব করুনাম্বয়েই লীলাযোগে,  
 নানা বৈচিত্ৰ্য, স্বাক্ষ্মে পরিপূর্ণ এই সুন্দর বিশ্বে স্বল্প  
 অসম্মাদের অমৃত রসে অসম্মত করে রেখেছে। বিভিন্ন বনে  
 ও সঞ্চে জীবনের করুনাম্বিরা অমৃতের জ্ঞানো পৃথিবীতে  
 কম্বিত হয় জীবনের দেওয়া অসম্মোতে অসম্মোকিত হলে  
 উর্বে অসম্মাদের এই জ্ঞাত অসম্মার, কবির জ্ঞানো —

"প্ৰদীপের জ্ঞানো

অমম্ব অসম্মার জ্ঞানো লক্ষ্যবর্তিবণম্ব  
 জ্ঞানাম্বা তুলিবে অসম্মো তোমারি মিথাম্ব  
 তোমার স্বাক্ষ্মি স্বাক্ষ্মে"

জ্ঞানবদেহে অমম্ব স্বাক্ষ্মিকে দহন করে জ্ঞানো কাৰ্য্যনা বণ  
 কবির উল্লেখ্য নয় এই পৃথিবীর সুসম্ব দৃশ্যে নানা সঞ্চে,  
 প্ৰাম্বের স্বাক্ষ্মে যে প্ৰদ্বত অসম্মন্দ রয়েছে তার স্বাক্ষ্মেই বিরাড  
 করেছ বিশ্ববিধিতার উজ্জ্বল উল্লেখ্যিত। কবি লিখেছেন —

"স্বাক্ষ্মের দ্বার

স্বাক্ষ্ম কবি জ্ঞানো অসম্মে যে নহে অসম্মার  
 যে কিছু অসম্মন্দ অসম্মে দৃশ্যে, সঞ্চে, সানে  
 তোমার অসম্মন্দ রয়ে তার স্বাক্ষ্মে"

— জ্ঞানো হল স্বাক্ষ্মের স্বাক্ষ্মনাশের বণন তাই কবি লিখেছেন  
 জ্ঞানোকে স্বাক্ষ্মরূপে জীবনে উল্লেখ্যিত করতে।

আমর স্নেহকে ত্রিকিতে রূপান্তরিত করতে কবির ভাষায় —

‘স্নেহ স্নেহ স্মৃতিরূপে উচিত অলিয়া

স্নেহ স্নেহ ত্রিকিরূপে রহিবে মলিয়া?

সুতরাং, এই দুইবীর অবকিছুকে আলোবাসা দিয়ে

গৃহস্থের প্রতি ত্রিকি বেছে জীবকে অধা করে মানুয়ায়

সিবেয়া, তথা গৃহস্থকে উজনা করা এই কথায় ওম লোচ্য

কবিতাটির স্মৃতি স্মৃতি উঠে উঠেছে। ✓



2) 'পোষ্টমাস্টার' জলেন্দর নামক কে? কোন গ্রামে চাকুরী নিয়ে যেতে হয়েছিল? রতনের গুণিণ্ড পরিচয় দাও।

→ রবীন্দ্রনাথ চাকুরী রচিত পোষ্টমাস্টার জলেন্দর নামক হল জলেন্দর কেন্দ্রীয় তথা প্রবীণ চরিত্র পোষ্টমাস্টার প্রয়ক।

এই পোষ্টমাস্টার উলাপুর নামক গল্প গ্রামে চাকুরী নিয়ে উলোচ্য জলেন্দর পোষ্টমাস্টার ছাড়া আর যে চরিত্র আছে তার নাম রতন। যে গ্রাম্য বালিকা, শহর থেকে আগত পোষ্টমাস্টার ঘরে কাজ করে দেওয়ার জন্যে রতন নিমুক্ত হয়েছিল, অর্থাৎ, উলতোলা, ঘর পরিষ্কার করা, বাসনা করা, উনুন ধরানো, সুটি তৈরি করা, তামাক মেখে দেওয়া ইত্যাদি পোষ্টমাস্টারের মারাত্মক কাজকর্ম করে দিত রতন নামে দুই বালিকাটি।

রতন ছিল অশেষ বালিকা কিন্তু তার মতি স্বর্নস্বামীর মতো মমতাময় একটি হৃদয় ছিল। পোষ্টমাস্টার তাকে লেখাপড়া শিখাতে চাইলে যে এক কথায় রাজি হয়ে যায় তারপর দাদাবাবুর মতন অসুখ করে তখন রতন তার দিদি ও জননীকে ড্যান অধিকারে করে তার যেরা করে না, জনস্বামীর তার মনপার্থ নিয়েছে - 'বালিকা রতন তার বালিকা রইল না'।

রতনের বয়স ছিল ২২-২৩ বছর। যে ছিল অতিমানী, পোষ্টমাস্টার চাকুরী ছেড়ে বাড়ি ফিরে মাবার সিদ্ধান্ত নিলে রতনওয়ে পোষ্টমাস্টার তাকেও ইমত মর্জি নিয়ে, কিন্তু তাকেও পোষ্টমাস্টার তাকে রাজী করা করলে রতন হতাশ ও স্বমাহত হয়ে পড়ে, অবশেষে দেখা যায় অতিমানী রতন পোষ্টমাস্টারের দেওয়া দান তথা অর্থ আহ্বায় নিতে চাকুরি। মতন দাদাবাবুর মর্জি তার বিচ্ছেদ ঘটে তখন যে ট্রাঙ্কিং করা ক্রমলাভ করে, অত্যাশেই তার চরিত্রের মার্ককতা



# Ramananda College

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

8/10

Stream: Political Science (Programme) UID: 22171208017

Name: Priyanka Sen

Roll No. 851 Date 27/05/2023 Signature Of Invigilator.....

১। " বৈরাগ্য আছিলে হুস্তি তে আচাৰ নহা " - কবিতাটি লেখক  
কবিতাটির মত অর্থাত্ত কবিতা? কবিতাটির মূল ভাব  
অর্থাত্তে আলোচনা কর।

→ বৈরাগ্য আছিলে হুস্তি তে আচাৰ নহা, - এটি বৈরাগ্য  
কবিতার মত অর্থাত্ত কবিতা। এই কবিতার মূল ভাবনা যা  
আর কবিতা হল বৈরাগ্য তথা অর্থাৎ আছিলে হুস্তি  
নহা। বৈরাগ্য হুস্তি হোলে হোলে, অর্থাৎ অর্থাত্ত বর্ণনা  
যেখানে যেহে, হেহা, অর্থাৎ, অর্থাৎ. আলোচনার জন্য আচাৰ  
আছে, আর হুস্তি-দিয়ে তাই আলোচনা অর্থাৎ হুস্তি  
হুস্তি আচাৰ-এই অন্য কবিতার আনন্দ লাভ করার জন্য  
অর্থাৎ হুস্তি লাভ করে। কিন্তু-কবি অর্থাৎ এই অর্থ  
বর্ণনার হুস্তি-দিয়ে হুস্তির আনন্দ লাভ করে। অর্থাৎ কবি অর্থাৎ  
অর্থ হুস্তির আনন্দ লাভ করে। তাই কবি অর্থাৎ অর্থাৎ

" বৈরাগ্য আছিলে হুস্তি তে আচাৰ নহা  
অর্থাত্ত বর্ণনা আনন্দ লাভ  
লাভ হুস্তির আনন্দ "

বৈরাগ্য আছিলে হুস্তি তে আচাৰ নহা  
অর্থাত্ত বর্ণনা আনন্দ লাভ  
লাভ হুস্তির আনন্দ



সঙ্গে ভোগবাদের স্বপ্নাভিরা অমৃতের মতো সুখিত্ব  
অর্জিত হয় ভোগবাদের মৃত্যু আলোতে আলোকিত হয়  
বীজ ভাঙ্গারের এই উভয় অমৃত। অতিরিক্ত ভাঙ্গা —

" অদীনের মতো

অমৃত অমৃত আর অমৃতিকার  
প্রাণাঙ্গী হুলির আলো প্রমাণি নিবন্ধ  
ভোগের অতিরিক্ত মাসো।"

আনন্দেই অমৃত হৃদয়কে দুঃখ করে যায় অকিঞ্চিৎকর  
অতিরিক্ত অমৃত এই সুখিত্বের সূক্ষ্ম হৃদয় নানা মতো  
প্রাণের মতি যে অমৃত আনন্দ রূপে তার অস্তিত্ব নিবন্ধ  
অমৃতের বিপরীতের বিজ্ঞান বিপরীত। অতি নিবন্ধ —

" উদ্ভিদের দ্বার

রুদ্ধ অতি যোগ্যের যে মতো ভাঙ্গার  
যে অতি আনন্দ আছে হৃদয়, অমৃত আলো  
ভোগের আনন্দ রূপ তার মাঝখানে।"

— আর হৃদয় অমৃতের অর্জনের কারণ এই অতি সুখিত্বের  
আনন্দে সুখিত্বের দ্বারের বিজ্ঞানিত করণ।  
তার প্রেক্ষিত অস্তিত্বের সূক্ষ্মত্বের অমৃত অতিরিক্ত ভাঙ্গা —

" আর আর সুখিত্বের দ্বার সুখিত্ব  
আর আর অস্তিত্বের দ্বার অস্তিত্ব।"

সুখিত্ব, এই সুখিত্বের অস্তিত্বকে আলোকিত করে দ্বারের  
অতি অস্তিত্বের দ্বারের অমৃত অমৃত নিবন্ধ।  
তখন দ্বারের দ্বারের অমৃত অমৃত অস্তিত্বের  
অতি অমৃত দ্বারের।







# Ramananda College

2/10

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream : B. A (Gen.) Physical Education UID : 22171207057

Name : Sakiba Khatun

Roll No. 088 Date 27/05/2023 Signature Of Invigilator.....













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| DATE     |  |
| EXPT NO. |  |

এই নিছক ব্যক্তি কথা ভাঙে সোনারমণ। কাজের  
 ক্ষেত্রে উন্নীত হলেও ব্যক্তি সেরে। যে আত্মসম্মতি  
 ছিল। নিজের স্বপ্নে যিগেন সের-ব্যক্তি স্বয়ংকি ছিল।  
 সেই ভাবেই নিজে জানলে যে বস্তু না হোলে।  
 সোনারমণের বস্তুই সে জেত উঠেছে হুয়েনে  
 জেত মাগুন

তারপরেই সোনারমণের শ্রমের উন্নয়ন, বোঝামান্য  
 আধাপতা ক্রমশ হলেও জেত উঠে হুয়েনে  
 সোনারমণের মনেও জেত উঠে হুয়েনে হুয়েনে  
 বস্তুই সে তার নিছক স্বপ্নের মতো নয়।

সোনারমণের আত্মীয় জ্ঞানের মত একজন বালক সে  
 নিজেকে মনে করেছিল। সোনারমণের হুয়েনে জেত  
 হুয়েনে বা, ব্যক্তিগত বস্তুই তার ব্যক্তিগত হুয়েনে  
 জেত উঠেছে সে জেতের মত আত্মসম্মতি করে বস্তুই  
 জেত উঠেছে, জেতের ব্যক্তিগত জেত উঠেছে জেতের  
 জেত উঠেছে। মনে মনে জেত উঠেছে জেতের  
 জেতের হুয়েনে উঠেছে।

জে জেত উঠেছে জেত উঠেছে, যে কোনো একজন  
 সোনারমণের কাছে তার জেত উঠেছে জেত উঠেছে  
 জেত উঠেছে জেত উঠেছে জেত উঠেছে জেত উঠেছে  
 জেত উঠেছে জেত উঠেছে জেত উঠেছে জেত উঠেছে  
 জেত উঠেছে জেত উঠেছে জেত উঠেছে জেত উঠেছে  
 জেত উঠেছে জেত উঠেছে জেত উঠেছে জেত উঠেছে  
 জেত উঠেছে জেত উঠেছে জেত উঠেছে জেত উঠেছে



Teacher's Signature \_\_\_\_\_

ଅନ୍ଧାର ହାତେ, ଶାନ୍ତର, ତୁମେ ହୋଇ ଯାଏ ଏକାନ୍ତ  
 ବାଲିକାର ଛିଡ଼ି - ଶାନ୍ତର ଛିଡ଼ି କଢ଼ି ଯୁକ୍ତ କାଳ  
 ଏକଜନ ବ୍ୟକ୍ତିବାସ,

DATE

EXPT.  
NO.



Ramananda college

course - OBISIK BANGLA

NAME - Shantanu Bausi

UID - 22171207094

6/10

Roll NO - 1026 DATE → 27/05/2023

signature of invigilator →

৩) বেঙ্গলী সাহিত্যের মুক্তি কবিতাটির অর্থ?

বেঙ্গলী সাহিত্যের মুক্তি যে আমরা নয় (এটি নোবেল) কাণ্ডের  
ও সাংস্কৃতিক কবিতা। এতে কবিতার বিষয় ভাষা বা 'আর' কথা গুলো  
বিভাজ্যতম অর্থাৎ সাহিত্যের দ্বারা মুক্তি নয়। বরং বলায় মুক্তি পোষ  
ঠিক মুক্তি সাংস্কৃতিক সাংস্কৃতিক বস্তু। যেখানে (স্বপ্ন, প্লেস, স্মৃতি, উত্তর  
ভাষ্যে বা অন্য আলাদা আছে তার স্মৃতি দিয়ে এই-অর্থাৎ সাংস্কৃতিক  
একে মুক্তি পাবার জন্য এখানে ~~স্বপ্নের~~ সাহিত্যী মোটে করার জন্য অর্থাৎ  
জীবন মোটে করেন। কিন্তু কবি সাংস্কৃতিক এভাবে বস্তুকে মুক্তি দিয়ে  
কৃষ্ণের আশ্রিতকে কামলকি কথাত বসেদের এখানে মুক্তি জায়ায়া বসেদের  
তাই কবি দ্বারা মুক্তির মুক্তি -

৩) বেঙ্গলী সাহিত্যের মুক্তি যে আমরা নয়  
সাংস্কৃতিক বস্তু। স্মৃতি সাংস্কৃতিক  
মুক্তির মুক্তি দ্বারা,

বিশ্ববিদ্যালয় অর্থাৎ মুক্তি- হল মুক্তি  
মোক্ষসূত্র। আর মুক্তি দ্বারা সাংস্কৃতিক  
কল্পনামাত্রের লীলাভঙ্গি হানা স্বাদিক মুক্তি  
সাহিত্যিক-এ মুক্তি- বিশেষ মুক্তি- জায়ায়া



অসুস্থের আশ্রয় করে যেখানে বিচিৎর বান - জন্মে  
সজাবনের কল্প মজিরা - আলোকে আলোকিত - ৭৫ - ১১০  
আমাদের এই ভাষা, অক্ষর - কবিতা-মাধ্যম

শ্রীমতী সার - মাতা

সমস্ত অক্ষর সার অসুস্থিতিকায়  
শ্রীমতী সার - মাতা - আলো - আলোকিতিকায়  
- সুরার - অক্ষর - মায়া ।

সারসংক্ষেপে সমস্ত শ্রীমতী সার - মাতা - আলো - আলোকিতিকায়  
আমাদের কল্প মজিরা - আলোকে আলোকিত - ৭৫ - ১১০  
আমাদের এই ভাষা, অক্ষর - কবিতা-মাধ্যম  
সমস্ত অক্ষর সার অসুস্থিতিকায়  
শ্রীমতী সার - মাতা - আলো - আলোকিতিকায়  
- সুরার - অক্ষর - মায়া ।

শ্রীমতী সার - মাতা

সমস্ত অক্ষর সার অসুস্থিতিকায়  
আমাদের কল্প মজিরা - আলোকে আলোকিত - ৭৫ - ১১০  
আমাদের এই ভাষা, অক্ষর - কবিতা-মাধ্যম  
সমস্ত অক্ষর সার অসুস্থিতিকায়  
শ্রীমতী সার - মাতা - আলো - আলোকিতিকায়  
- সুরার - অক্ষর - মায়া ।





ବୃତ୍ତାନ୍ତ ବ୍ୟବହାର ୧୨-୧୬ ବର୍ଷ ଅଧିକ ଭାଗିନୀ  
 ମୋକ୍ଷମାର୍ଗ ଚାକିରି ଦେଇ ଦିଅନ୍ତି ବାକି ଚିକିତ୍ସା-ଆଗାଧୁ  
 ସିଦ୍ଧାନ୍ତ ମିଳାଏ ବୃତ୍ତ ଚାକିରି ମୋକ୍ଷମାର୍ଗ ଚାକିରି ବ୍ୟତୀ  
 ମଧ୍ୟ ମିଳାଏ । କିନ୍ତୁ ଚାକିରି ଓ ମୋକ୍ଷମାର୍ଗ ଚାକିରି ବ୍ୟତୀ  
 ଅନ୍ତର ମିଳାଏ କିନ୍ତୁ ଚାକିରି ଓ ମୋକ୍ଷମାର୍ଗ ଚାକିରି ମୋକ୍ଷମାର୍ଗ  
 ବୃତ୍ତ ଚାକିରି ବ୍ୟତୀ ମୋକ୍ଷମାର୍ଗ ବ୍ୟତୀ ମୋକ୍ଷମାର୍ଗ  
 ମଧ୍ୟ ଭାଗିନୀ ବୃତ୍ତ ମୋକ୍ଷମାର୍ଗ ବ୍ୟତୀ ମୋକ୍ଷମାର୍ଗ  
 ଚାକିରି ଚାକିରି, ଅନ୍ତର ଦାଦାବନ୍ଧୁ ଅନ୍ତର ଚାକିରି ଚାକିରି ଚାକିରି  
 ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି  
 ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି ଚାକିରି

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7/10

Name— Sayan Kundu

class—

year—

Roll No— 173

subject— Mit-Bengali

Paper—

Stream—

UID— 22173213005

date—

Signature of Invigilator—



২) "বৈরাগ্য অধিনে স্মৃতি মে আশ্রয় নম" - কবিতাটি কোণ কাব্যগ্রন্থের  
কত অধ্যায়ক কবিতা? কবিতাটির মূলভাব অধ্যয়ন করে লেখো।

⇒ বৈরাগ্য কাব্যগ্রন্থের ৩০ অধ্যায়ক কবিতা

মূলভাব: - এ প্রিমিটিভে একদল মানুষ আত্মপন্থা করে  
করেন অস্বাভাবিক-অসুখের বেড়ে, ইচ্ছিত দমন করে নির্জনে অধিগত  
করেন সুখি-স্মারকনাতে হয়। তাদের বৈরাগ্য বর্ণনা - 'ব্রহ্ম' অর্থাৎ,  
অস্বাভাবিকতা।

অধিগত ভাব: - কল্পনাময়ের অধিক, চিন্তার তাই বৈরাগ্য  
অধিনে স্মৃতি গুণে। কিন্তু কল্পনাময়েরে যে নির্জিত আত্মপন্থা ও অস্বাভাবিকতা,

'সুখ সুখ রূপ আশ্রয়ে আশ্রয় নম।  
কোন্ কোন্ গুণে পাবি স্থায়ী অধিনে স্মৃতি নম?'

কল্পনাময়েরে সুখ নির্জিত যে অধিনে রতন হলে। সুখি স্মৃতিয়ের আশ্রয়,  
'অধিনে সুখি' বাক্যে যে আশ্রয়, যে অধিনে অধিক, যে সুখ পাতল, যে  
পাশ্রি গাল, সেই সুখের কোণে নির্জিত অধিনে পাতল। যে নির্জিত  
বস্তু হলে যেলে বেড়াগ দিচ্ক দিচ্ক, সুখ, আশ্রয়, সুখ, চিত্তে, বর্ণে  
বর্ণে, সুখ, সুখ-সুখের আশ্রয়ে - অধিনে, আশ্রয় - অধিনে অধিক -  
উপর নির্জিত সুখের বাহুরে কাজ আমি অধিনে করি। উপর নির্জিত  
নির্জিত সুখস্মৃতিয়ে আশ্রয়ে আশ্রয় তার পক্ষে আশ্রয় উপর, এ  
আশ্রয় উচ্চনাও পাবি নম?

এ সুখ নির্জিত একে অধিনে ও সুখি অধিনে আশ্রয়ে নির্জিত  
অধিনে করে আশ্রয় অধিনে অধিনে বাহুরে চিত্তে। সুখি স্মৃতিয়ে  
বলে অধিনে,

'স্মৃতি ও সুখি অধিনে আশ্রয়ে পাবি,  
স্মৃতি অধিনে অধিনে।  
আশ্রয় অধিনে অধিনে অধিনে পাবে  
সুখি অধিনে অধিনে।'

কর্মের মাধ্যমে সৃষ্টি। সত্যের ও বস্তুত্বের অবিচ্ছেদ্য মাধ্যমে সৃষ্টি  
 পক্ষ সৃষ্টিতে গড়ে হবে। পক্ষ ইন্দ্রিয়ের আর অজীব ও দুর্লভকিত্তি তিনি  
 হতে পারেন জিতেন্দ্রিয়। যারা অণুসারের মধ্যে জীবিত হয়ে  
 মাধ্যমে যেসব অস্বাভাবিকতা করেন। তারা ও ইন্দ্রিয়ের অস্বা  
 ভাবনা প্রকৃত অস্তিত্বে তার সৃষ্টিগত। অণুসার অস্বাভাবিকতা  
 করে ইন্দ্রিয় দমন করা অস্বাভাবিক। কিন্তু অণুসারের জীবিত হয়েও  
 তারা ইন্দ্রিয়ের নিজের ইচ্ছা করলে চালনা করতে পারে তারা  
 জীবিত হয়ে পুরুষ। ইন্দ্রিয়ের অস্বাভাবিক প্রকৃতি মাধ্যমে অণু। তবে  
 মাধ্যমে অস্বাভাবিক অস্বাভাবিকতা ইন্দ্রিয়ের জীবিত  
 পাওয়া অস্বাভাবিক অস্বাভাবিক। তাই ইন্দ্রিয়ের অস্বাভাবিক অস্বাভাবিক। তবে  
 নির্দেশ বা পরিষ্কার অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক  
 প্রকৃতিগত। অস্বাভাবিক প্রকৃতির অস্বাভাবিক অস্বাভাবিক। অস্বাভাবিক  
 তার অস্বাভাবিক। তবে অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক  
 অস্বাভাবিক করা অস্বাভাবিক। নির্দেশ অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক  
 অস্বাভাবিক সৃষ্টি অস্বাভাবিক অস্বাভাবিক। কিন্তু অণুসারের অস্বাভাবিক  
 অস্বাভাবিক বা অস্বাভাবিক অস্বাভাবিক সৃষ্টি হতে পারে অস্বাভাবিক।  
 তবে অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক মাধ্যমে সৃষ্টি অস্বাভাবিক  
 সৃষ্টি অস্বাভাবিক অস্বাভাবিক অস্বাভাবিক।

3











# Ramananda College

6/10

UG 2st. Semester Honours / Programme MIL Home Assignment 2022-2023

Course Id: 20100, Course Code: ACSHP/204/AECC-2

Course Title: OBISIK BANGLA

Stream : ARTS (PROGRAMME) UID : 22171202103

Name : BIJOY KARENGA

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Roll No. 740 Date..... Signature Of Invigilator.....

ବୈଦ୍ୟ ଆଚାର୍ଯ୍ୟ ସ୍ଵାସ୍ଥ୍ୟ, ଯେ ଆହାର ବସ୍ତୁ,  
ଅସଂସ୍କୃତ ବସ୍ତୁ - ଖାଲେ ଅଧ୍ୟାତ୍ମିକତା  
କାର୍ଯ୍ୟ ସ୍ଵାସ୍ଥ୍ୟର ଦ୍ଵାର.

ଉଦାହରଣ : ଏ ସ୍ଵାସ୍ଥ୍ୟରେ ଏକମାତ୍ର ଆହାର ଖାଲେ ଯାହା ଖାଲେ କେବଳ  
ଅହାର - ଅହାର ହେଉ, ସ୍ଵାସ୍ଥ୍ୟ ନହାଏ କେବଳ ନିଜର ଆର୍ଯ୍ୟତା  
କେବଳ ସ୍ଵାସ୍ଥ୍ୟ ହୋଇଲେ ହେ, ତାହାର ଏହାପରି ଚାରଣା - ବ୍ରହ୍ମ ଅନ୍ତ,  
ଉଦ୍ଧୃତ ଶାନ୍ତା,

ଅଧ୍ୟାତ୍ମିକତା ଯେ : ଜ୍ଞାନର ଆଚାର୍ଯ୍ୟ, ଯୋଗୀତା ଓ ବୈଦ୍ୟ ଆଚାର୍ଯ୍ୟ  
ସ୍ଵାସ୍ଥ୍ୟ ସୁଖେ, କିନ୍ତୁ ବୁଦ୍ଧିର ଯେ ବିଶିଷ୍ଟ  
ଆହାର ଆବଶ୍ୟକ, 'ତୁମ୍ଭେ ତୁମ୍ଭେ ବୁଦ୍ଧି ଆହାର ଖାଲେ, ଯେଉଁ ଯେଉଁ  
ସୁଖେ ଖାଲେ ସୁଖ ଖାଲେ ହେବେ.'

ବୁଦ୍ଧିର ଯେ ବିଶିଷ୍ଟ ଯେ ଅବୁଦ୍ଧ ବସ୍ତୁ ଖାଲେ, ବୈଦ୍ୟର ଯେଉଁ,  
ଯେଉଁ ହୁଏ ଯେ ଯେ, ଯେ ଅବୁଦ୍ଧର ଯେଉଁ, ଯେ ହୁଏ ଖାଲେ, ଯେ ଖାଲେ  
କାଲ, ଯେଉଁ ଯେଉଁ ଯେଉଁ ଯେଉଁ ଆହାର ଖାଲେ, ଯେ ଯେଉଁ ଯେ ଯେ ଯେ  
କେବଳ ନିଜେ ନିଜେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ, ଯେ,  
ହେଉ ଯେଉଁ - ଅହାର, ଯେଉଁ - ଯେଉଁ ହୁଏ - ଯେ ଯେଉଁ ଯେଉଁ  
କେବଳ ଯେ ଆହାର ଯେ କେବଳ, ଯେ ଯେଉଁ ଯେଉଁ ଯେଉଁ ଯେଉଁ  
ଆହାର ଯେଉଁ ଯେ ଯେଉଁ ଆହାର ଯେ, ଏ ଆହାର ଏହାପରି ଯେଉଁ.

ଏ ବୁଦ୍ଧିର ଯେଉଁ ଯେ ଯେ ଯେ ଯେ ଯେ ଯେ ଯେ ଯେ ଯେ ଯେ  
କେବଳ ଯେଉଁ ଯେ କେବଳ ଯେ, ବୈଦ୍ୟର ଯେଉଁ,











ଏ ଉପରେ ଓହ୍ଲାଇ ଦିଆଯାଇଛି, ଯେ-କେଣେ ଏହାକୁ ଚୋରାଧୋରୀରେ  
କାଢ଼ି ଆଉ ଯେ ଯାହାକୁ କାଢ଼ି ନା, ଚୋରାଧୋରୀ-ଆଧୋରୀ ପ୍ରଦର୍ଶନ କରେ  
ଏ ହେତୁରେ ଏହାକୁ ଚୋରାଧୋରୀ କରେ ନାହିଁ, ଏହି ଚୋରାଧୋରୀ-ଆଧୋରୀ  
କାଢ଼ି ଆଧୋରୀ-ଓହ୍ଲାଇବା ଯେଉଁ ଓହ୍ଲାଇବା ହୋଇଥିଲା ନିମ୍ନ  
କାଢ଼ି ନିମ୍ନ ଯେ କାଢ଼ିବା ଯେଉଁ ନିମ୍ନ ଆଧୋରୀ କାଢ଼ି, ଏହାକୁ,  
ଏହି ଉପରେ ଏହାକୁ ଚୋରାଧୋରୀ-ଓହ୍ଲାଇବା ନିମ୍ନ ଯେ  
କାଢ଼ି କରେ ଏହାକୁ ଚୋରାଧୋରୀ.



RAMANANDA

COLLEGE

NAME:- SARBANANDA DHIBAR

UID:- 1172201574

CLASS:- B.A Honours (HISTORY)

SUBJECT:- MIL BENGALI

YEAR:- FIRST YEAR (2022-23)

Roll No:- 226

PAPER:- MIL BENGALI

SEM :-> II

DATE:-

Signature of Invigilator:

श्री ०११ न्याय व्यवस्था का संक्षेप

1. Advocate General: → न्यायपालिका के मुख्य वकील, अग्रिमिका।
2. Chief Election Commissioner: → निर्वाचन आयोग, अग्रिमिका।
3. Board of Trustees: → अग्रिमिका।
4. Disbursing officer: → ग्राम अग्रिमिका।
5. Free-lance journalist: → विभिन्न अग्रिमिका।
6. Hypothecated: → अग्रिमिका।
7. Industrial Tribunal: → श्रमिक-मालिक विवाद।
8. Laissez faire: - अग्रिमिका; अग्रिमिका।
9. Maternity leave: → अग्रिमिका, अग्रिमिका।
10. Xenophobia: → अग्रिमिका, अग्रिमिका।









# Geography

# **RAMANANDA COLLEGE**

**BISHNUPUR \* BANKURA**

**UG HOME ASSIGNMENT : 2022-2023**

**NAME- DEBAPRASAD RAKSHIT**

**SUB - GEOGRAPHY (HONS)**

**SEM - 3<sup>rd</sup>**

**UID - 21173119002**

**PAPER - CLIMATOLOGY**

**COURSE CODE - SH/GEO/301/C-5T**

**ROLL NO – 5**

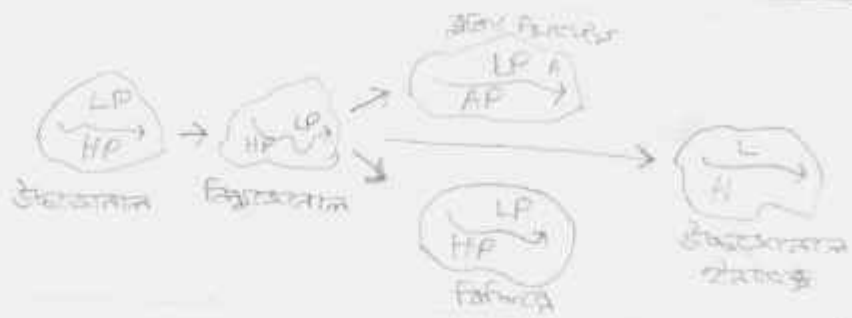
**TOPIC – JET STREAM & ROSSBY WAVE**











৭) ওরফে বহুলা বাড়তে থাকে, প্রকৃতপক্ষে বহুলা প্রতিভ হয়ে কয়েকটি কোষীয় গঠন তৈরী করে। বায়ুপৃষ্ঠে বিচ্ছিন্ন হয় একা নিম্নচাপের ঘূর্ণিবায়ু বা উচ্চচাপের প্রতীম ঘূর্ণিবায়ুতে পরিণত হয়। এর বিচ্ছিন্ন নিম্নচাপ ও বিচ্ছিন্ন উচ্চচাপ কোষ বায়ুর স্থানান্তরিক পথ থেকে পূর্বে প্রবাহ আটকে দেয়। এরূপ আটকে দেওয়ার ব্যাপক Blocking System নামে অভিহিত হয়।

বায়ু ওরফের সর্বোচ্চ দিকে প্রবাহিত বায়ু বিভিন্ন সন্ধির পরিবর্তনশীল বারোমিটার দ্বারা নিয়ন্ত্রিত হয়। এটি Geostrophic, sub-geostrophic ও super-geostrophic হতে পারে। এর ফলে বায়ু প্রবাহে গতিবেগ এর ওরফের সর্বোচ্চ উত্তম স্রবণ বরাবর বেশি হয়

উর্ধ্ব পশ্চিম বায়ুতে বয়বি ওরফে সৃষ্টির কারণটি এই বায়ু প্রবাহে Vorticity এর Angular momentum ডাঙে অক্ষয়িত। Vorticity হল ওরফতনশীল বয়ুর ঘূর্ণনের পরিমাপ। পৃথিবীর ওরফতনশীল কারণে উৎপন্ন বায়ুর ঘূর্ণনশীলতা উল্লম্ব ওয় বরাবর অক্ষয়িত হয়। তবে নিম্নচাপের প্রদেশে উৎপন্ন ওরফেতার অক্ষয়িতানে থাকে এখানে ঘূর্ণনশীলতার পরিমাণ সন্ন্য।

## JET STREAM

Jet Stream হল একটি ঘূর্ণনশীল অক্ষীয় বায়ুপ্রবাহ, ট্রোপোপজের উঁচু বা উঁচু অংশে অক্ষীয় ঢালের ডাঙে স্রবণ, যা উৎপন্ন অক্ষীয় উল্লম্বতার ঢাল ও সন্ধি অক্ষয়িতানের ডাঙে গিলে যায়। Jet Stream ডাঙিত বরাবর একটি অক্ষীয় পথে এত ওরফিক উল্লম্বতার ঢালের কারণটি প্রথমে স্রবণই নয়। Petersen মতে Jet Stream এর তাপীয় বায়ুপ্রবাহ একা এর সন্ধি নিম্ন বায়ুস্তরের উল্লম্বতার পথে অক্ষয়িতান। বিভিন্ন ওয় অংশে Jet Stream গতিবেগ ওরফতম ওয় উঁচু ওরফে গীষ অক্ষয়িতান - ৭

## General Characteristics of Jet Stream:

- ১) এটি ঊর্ধ্বা ঊর্ধ্বা, দীর্ঘ তরঙ্গদৈর্ঘ্য বিশিষ্ট সুদীর্ঘ বায়ুপ্রবাহ।
- ২) বায়ুর গতিবেগ প্রত্যন্ত বৈশি, যতদূর 150-300 কিমি প্রায়।  
ছড়ানু ক্ষেত্রে এই গতিবেগ ৩০০ কিমি কাছাকাছি হতে পারে।
- ৩) স্থল-সমুদ্রের আবহাওয়া উষ্ণতার পার্থক্যে জন এই বায়ুপ্রবাহ।
- ৪) বিভিন্ন অবস্থানে থাকলেও উঃ জোনার্ধে  $30^{\circ}$ - $60^{\circ}$  অক্ষাংশে প্রবাহ বায়ুমণ্ডলে লক্ষ্য করা যায়।
- ৫) হলে বায়ুর তরঙ্গপাতীক তাপমাত্রা অতি শীতল এবং নিম্ন পাতীক তাপমাত্রা উষ্ণতর।
- ৬) নিম্ন বায়ুমণ্ডলের আকর্ষণ ও উল্লসিত এর দ্বারা প্রবাহিত।
- ৭) উঃ জোনার্ধে Anti clock wise ও দঃ জোনার্ধে clock wise

## Classification of Jet Stream:

### A. Polar Jet Stream $\Rightarrow$

এটি দু'ভাগে বিভক্ত। Polar Front and Arctic Front Jet Stream. যেখানে তরঙ্গদৈর্ঘ্যীক ও উপত্রান্তীয় বায়ুপ্রবাহ তরঙ্গদৈর্ঘ্যীক ও আর্কটিক বায়ুপ্রবাহ একত্রে যেখানে একটি উষ্ণতার তীক্ষ্ণ পার্থক্য জন সৃষ্টি হয়। যেখানে এই বিপরীত বায়ুপ্রবাহ উল্লসিত মিলনে সৃষ্টি একটি পার্শ্বিক বিস্তারিত হলে হলে বায়ুপ্রবাহের গতিপথ সৃষ্টি হয়। তরঙ্গদৈর্ঘ্যীক হলে বায়ুপ্রবাহের দ্রাঘিমা বরাবর অবস্থানটি সৃষ্টি গতি।

উষ্ণ-উপত্রান্তীয় হলে এর দ্রাঘিমা গতি যতদূর 245 কিমি তরঙ্গদৈর্ঘ্যে উল্লসিত বিস্তারে প্রবাহিত হতে পারে। কখনো এটি পৃথিবীকে এর প্রবাহ পথ দ্বারা ঘিরে ফেলে। তরঙ্গদৈর্ঘ্যীক হলে বায়ুপ্রবাহ উল্লসিত তরঙ্গ বায়ুর সাথে সৃষ্টি হয়।

উষ্ণ-উপত্রান্তীয় হলে এর দ্রাঘিমা গতি Primarily Jet Stream নামে পরিচিত। উষ্ণ-উপত্রান্তীয় হলে দ্রাঘিমা গতি উল্লসিত শীতকালে এবং উষ্ণ এর সৃষ্টি বা তিরতি সৃষ্টিতে বায়ু লক্ষ্য করা যায় যা প্রায় 100 তিরিকাল মাথলে গতি উল্লসিত হয়।



### B. Sub-Tropical Jet Stream:

উত্তর ট্রোপিক্যালারে উত্তর দানের অর্ধ উপস্থায়ীতে যে বায়ুপ্রবাহকে বলা হয়। এটি অনেকটাই সুসংগঠিত এবং প্রায় অবিচ্ছিন্ন বা প্রবাহ। নিম্ন ও মধ্য অক্ষাংশে গড়ে প্রায় 12 km উচ্চতায় এটি দেখা যায়। তবে যে এক ক্ষেত্রে এটি কোন বায়ু সীমার অর্ধে ঘনিষ্ঠ সংগঠিত নয় বলে মনে করা হয়।

### C. Tropical Jet Stream:

এটি স্থায়ী পূর্বানি যে বলেও অভিহিত হয়। গ্রীষ্মে উত্তর ট্রোপিক্যালারে এই পূর্বানি স্থায়ীতে বায়ুপ্রবাহ গঠিত হয়। আর ওষ্মান ভারত ও আফ্রিকা মহাদেশের উপরে। এই অর্ধে দক্ষিণ-উত্তর উত্তর দানে আঞ্চলিক পার্থক্য মতো এর উপস্থিতি

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**TOPIC – CLASSIFICATION WORLD CLIMATE  
SCHEMES OF KOPEN**

*Sayandip*











C জলবায়ু

|    |   |
|----|---|
| C  | উষ্ণ নাতিমৌসুম বৃষ্টি জলবায়ু (Warm Temperature Rainy climates):<br>শীতলতম মাসের গড় উষ্ণতা $6.4^{\circ}$ -এর কম, কিন্তু $22.6^{\circ}$ -এর $(-3^{\circ}\text{C})$<br>তারিফ। উষ্ণতম মাসের গড় উষ্ণতা $50^{\circ}$ ( $10^{\circ}\text{C}$ ) -এর উপর। |
| Cf | কোনো মরুপত্রও জল বাষ্প নেই।   |
| Cw | জলীয় মৌসুম; শীতের জলবায়ু মাসের তাপ: দশম্বর থেকে বৃষ্টিপাত শীতের<br>চতুর্থতম মাস।  |
| Cs | জলীয় গ্রীষ্ম; গ্রীষ্মের জলবায়ু মাসের তাপ: তিনমাস থেকে বৃষ্টিপাত<br>শীতের চতুর্থতম মাস।  |

C জলবায়ুর অঙ্গা স্ববহুত অন্যান্য পঞ্চম লেটেরগুলি হল:

|   |  |
|---|--|
| a | উষ্ণ গ্রীষ্ম; উষ্ণতম মাসের গড় উষ্ণতা $71.6^{\circ}$ ( $22^{\circ}\text{C}$ ) -এর তারিফ                  |
| b | শীতল গ্রীষ্ম; উষ্ণতম মাসের গড় উষ্ণতা $71.6^{\circ}$ ( $22^{\circ}\text{C}$ ) -এর নিম্ন।                 |
| c | শীতলতম মাসের পূর্ণ প্লামী গ্রীষ্ম: হার মাসের ও কম উষ্ণতা $50^{\circ}$ ( $10^{\circ}\text{C}$ ) এর<br>উপর |
| i | A জলবায়ুর অন্তর্গত।   |
| f | A জলবায়ুর অন্তর্গত।   |
| x | অন্যত্রিফ বৃষ্টিপাতকারকের সাথে তাপের গ্রীষ্মের শারঙ্গ; গ্রীষ্মের সাথে<br>জলবায়ু বৃষ্টি।                 |
| n | B জলবায়ুর অন্তর্গত।   |

D জলবায়ু

|    |  |
|----|--|
| D  | শীতল তৃণভঙ্গম জলবায়ু (Cold Snowy forest climate): শীতলতম<br>মাসের গড় উষ্ণতা $6.22.6^{\circ}$ ( $-3^{\circ}\text{C}$ ) -এর নিম্ন। উষ্ণতম মাসের গড় উষ্ণতা<br>$50^{\circ}$ ( $10^{\circ}\text{C}$ ) -এর উপর। |
| Df | চতুর্থ শীতলতম জলবায়ু  |
| Dw | জলীয় শীতলতম জলবায়ু; উষ্ণ-মরু এশিয়ায় বেশির ভাগ পূর্ণমৌসুমের<br>এটি দেখা যায়।   |

D জলবায়ুর অঙ্গা স্ববহুত অন্যান্য পঞ্চম লেটেরগুলি হল:

|                   |   |
|-------------------|---|
| d                 | শীতলতম মাসের গড় উষ্ণতা $-36.4^{\circ}$ ( $-33^{\circ}\text{C}$ ) -এর নিম্নে।             |
| b                 | শীতল গ্রীষ্ম; উষ্ণতম মাসের গড় উষ্ণতা $71.6^{\circ}$ ( $22^{\circ}\text{C}$ ) -এর নিম্নে। |
| d.s.w,<br>a.b.c.c | তারিফ স্থানি E জলবায়ুর অন্তর্গত।   |

E জলবায়ু

|    |  |
|----|--|
| E  | অসম্ভবীম-জলবায়ু (Arid climate): উষ্ণতম মাসের গড় উষ্ণতা $50^{\circ}$ ( $10^{\circ}\text{C}$ ) -এর নিম্নে<br>E জলবায়ুর প্রতি উপনির্ভোগ বৃষ্টিপাত করা যায়। ET, যেখানে এর পূর্ণ সমান্যের জন্য<br>উষ্ণতম বৃষ্টিপাত প্রায়শই হয় এবং সামান্য উষ্ণতম মাসের মধ্যে মরুতলা EF থেকে<br>বৃষ্টিপাতের সময় ও এলাকার উদ্ভিদ প্রাণী। |
| ET | চতুর্থ জলবায়ু (Tundra climate): উষ্ণতম মাসের গড় উষ্ণতা $50^{\circ}$ ( $10^{\circ}\text{C}$ ) -এর নিম্নে $32^{\circ}$ ( $0^{\circ}\text{C}$ )   |
| EF | জলীয় (perpetual Frost): শীতল মাসের গড় উষ্ণতা $32^{\circ}$ ( $0^{\circ}\text{C}$ ) -এর নিম্নে।  |

### ❖ অম্লানুঘাত:

❖ পুষ্টি: কোমল - কৃত জলবায়ুতে শ্রেণিবিন্যাস প্রয়োগের বিধি দিয়া গেল  
অম্লানুঘাত করেছেন। (i) কেউ কেউ বলে আছে ক্রমে মে স্থিতির কোলা বিধি  
অ্যাম্ল জল জল ও যা - বিধির তৎপন্ন অম্ল জলবায়ু সীমানা - অম্ল  
কঠোরতা এইরকম বিভাগে বিভাগ করেছেন।  
(ii) তাঁরা উল্লেখ করেছেন যে একই জলবায়ু তাৎক্ষণিক বিধির অম্ল  
ওমালার প্রাকৃতিক ও আনুষ্ঠানিক বিধির তাৎক্ষণিক লক্ষ্য করা যায়।  
(iii) ওমালার বলে যে কিছু কিছু জলবায়ু শ্রেণিবিন্যাসে নির্দিষ্ট প্রাকৃতিক  
বিধি (যদিও কমা হলে ওমালার কোমল সূত্রের নীতি অনুসরণ  
করা যায়)।

❖ সুসংগতি: যদি কোমল - কৃত জলবায়ুতে একটি উল্লেখ্য বিধি  
হলে - (i) জলবায়ুর প্রকারে নির্ধারিত ক্রমের আধিক্য বিধি প্রয়োগ  
এতে অম্লের বর্ধমানমূল্যকে পরিহার করা গেল। প্রত্যেক প্রকার জলবায়ুই  
কতকগুলি আধিক্যের সাংগতি বর্ণিত হয়েছে। মে আধিক্যের প্রকৃতি ওমালার  
বিধি অনুসরণ করা হয়।

(ii) স্থিতির জলবায়ু অধিকতর বিভাগ - অধিকতর কোমল - এর শ্রেণিবিন্যাসে  
দেখানো যায় এবং অধিকতর আধিক্য - জলবায়ু বিভাগে যথেষ্ট আধিক্য  
বলে বিলাদিত হয়।

(iii) উষ্ণতা ও শুষ্কতা মে পরিমাপের উপর নির্ভর করে শ্রেণিবিন্যাস করা  
গেলে বিলাদিত হয় বা ওমালার অম্ল ব্যাপার।

(iv) উষ্ণতা ও শুষ্কতা মে পরিমাপের উপর নির্ভর করে শ্রেণিবিন্যাস করা  
গেলে বিলাদিত হয় বা ওমালার অম্ল ব্যাপার।

(v) উষ্ণতা ও শুষ্কতা মে পরিমাপের উপর নির্ভর করে শ্রেণিবিন্যাস করা  
গেলে বিলাদিত হয় বা ওমালার অম্ল ব্যাপার।



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**TOPIC – MEASURES OF DISPERSION**

*Sindal*





# MEAN DEVIATION

কেন্দ্রীয় সন্নিবেশের কেন্দ্রীয় প্রবণতা বা central Tendency - এর পরিমাপ গণিতগতভাবে জানা যায় বিস্তৃতি বা "সারণ্যের" সড় হলেই Mean Deviation বা সড় পরিমাপ।

এ প্রসঙ্গে Clark ও Scherode বলেছেন যে "The Average that is taken of the scatter is an arithmetic mean, which accounts for the fact that this measure is often called mean deviation" এই mean deviation কে Average Deviationও বলা হয়।

## MEAN DEVIATION FORMULA:-

• Simple series (ungrouped):- Mean Deviation =  $\frac{1}{n} \sum (x - \bar{x})$

$x$  = observation of values

$n$  = no of values

$\bar{x}$  = Mean (Arithmetic)

• Grouped Frequency:- Mean Deviation =  $\frac{1}{N} \sum f|x - \bar{x}|$

$x$  = Mid values

$N$  = Total Frequency

$f$  = frequency

$\bar{x}$  = Mean

★ Calculate the mean deviation of the following values 6, 10, 52, 35, 12, 22, 5, 48 [simple series]

⇒

| values ( $x$ ) | Mean  | $(x - \bar{x})$ | $ x - \bar{x} $ |
|----------------|-------|-----------------|-----------------|
| 06             | 25.75 | -17.75          | 17.75           |
| 10             | "     | -13.75          | 13.75           |
| 52             | "     | +28.35          | 28.35           |
| 35             | "     | +11.25          | 11.25           |
| 12             | "     | -11.75          | 11.75           |
| 22             | "     | -1.75           | 1.75            |
| 05             | "     | -18.75          | 18.75           |
| 48             | "     | +24.25          | 24.25           |

$\sum x = 190$

$\sum |x - \bar{x}| = 127.50$

∴ Calculation of Mean ( $\bar{x}$ ) =  $\frac{\sum x}{n} = \frac{190}{8} = 23.75$

∴ Calculation of Mean Deviation =  $\frac{1}{n} \sum |x - \bar{x}|$   
 $= \frac{1}{8} \times 127.50$   
 $= 15.937$

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**ROLL NO – 5**

**TOPIC – CENTRAL TENDENCY**

*Signature*



# CENTRAL TENDENCY

পরিমাপসহিত বিশেষ কেন্দ্রীয় প্রবণতা যেন এমন একটি পরিমাপ যারি  
 সমগ্র ব্রাহ্মী ওয়ড একটি আধারত দেবসিধেড খুলে ব্রিকতে আশায় করে  
 আধারতত সিতরি গুরুত্বস্বত্ন যদ্বতির মাধ্যমে এই কেন্দ্রীয় প্রবণতার  
 পরিমাপ করা হয়। যথা - Mean, Median, Mode.

## Mean or Average:

Mean হল কেন্দ্রীয় প্রবণতার এমন একটি পরিমাপ যারি সমগ্র  
 ব্রাহ্মী ওয়ডের দেবসিধেড ওয়ডতু অশুদ্ধভাবে উপস্থাপন করতে পারে  
 পরিমাপসহিত বর্তনের মধ্যে সমগ্র মানগুলি এই কেন্দ্রীয় প্রবণতার  
 পরিমিতক বসতে করে থাকে।

Discrete or Continuous এই দুই ব্রিকনের Data এর আশায়  
 Mean or Average সিতরি করা হয়। Mean প্রবর্তত 3 প্রকার  
 যথা - Arithmetic, Geometric ও Harmonic Mean.  
 এদের মধ্যে ওয়ডতু প্রচলিত হল Arithmetic Mean.

8. Calculation the Arithmetic Mean from the Data.

| Boundaries  | Frequency     | Mid Value | $fx$              |
|-------------|---------------|-----------|-------------------|
| 1100 - 1200 | 4             | 1150      | 4600              |
| 1200 - 1300 | 9             | 1250      | 11250             |
| 1300 - 1400 | 17            | 1350      | 22950             |
| 1400 - 1500 | 13            | 1450      | 18850             |
| 1500 - 1600 | 7             | 1550      | 10850             |
|             | $\Sigma = 50$ |           | $\Sigma = 68,500$ |

calculation of Mean ( $\bar{x}$ ):

$$\begin{aligned}\bar{x} &= \frac{\sum fx}{N} \\ &= \frac{68,500}{50} \\ &= 1370\end{aligned}$$

Mean = 1370 cm

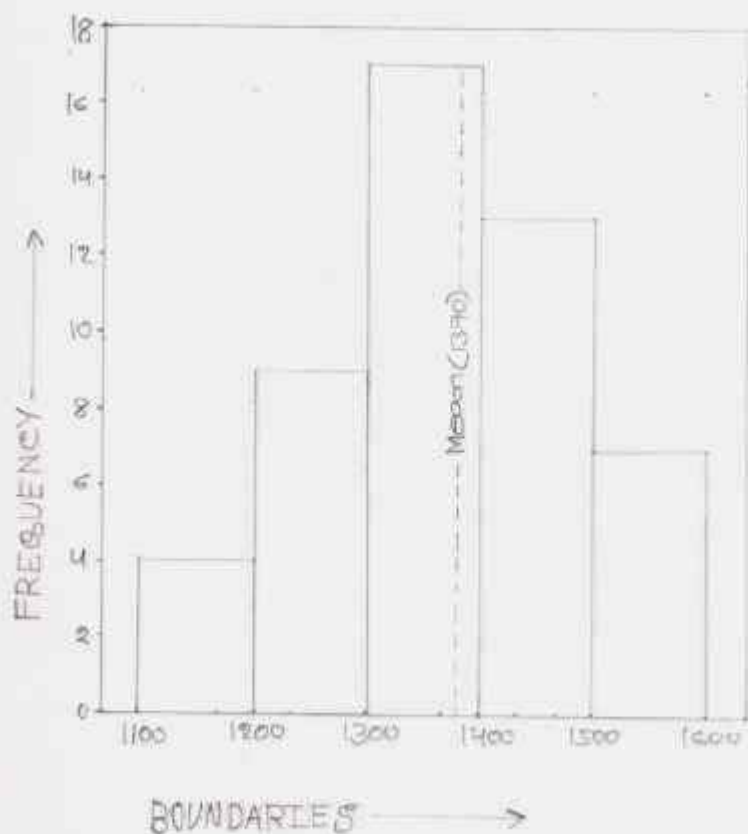
$$\text{Law: } \bar{x} = \frac{\sum fx}{N}$$

$f$  = Frequency

$x$  = Mid value

$N$  = Total Number  
of Frequency

## SHOWING THE MEAN VALUE ON HISTOGRAM



### Median:

Median হল একটি প্রকৃত প্রকারের একটি পরিমাপ যে একটির অর্ধ অংশ বাইরে ও অর্ধ অংশে দুটি জাতি জাতি করে। অর্ধ অংশ বাইরে অর্ধ অংশের একটি অর্ধ অংশে বিন্যাসে বিন্যাসে বিন্যাস করে। অর্ধ অংশের অর্ধ অংশ Median হয়ে থাকে ও বাইরে অর্ধ অংশের অর্ধ অংশ অর্ধ অংশ করে থাকে।

Discrete ও continuous Data উভয়ের ক্ষেত্রে Median এর মান নির্ণয় করা যায়। Median এর plotting করে একটি অর্ধ অংশের অর্ধ অংশের cumulative Frequency Polygon প্রকৃত প্রকারে

$$\text{Law: } L_1 + \frac{\frac{N}{2} - cf}{f} \times i$$

When,

$N$  = Number of  $F$

$L_1$  = Lower limit of the median class

$f$  = Frequency of Median class

$i$  = class interval of median class

$cf$  = cumulative frequency of class preceding Median class.



3. Calculation the Median from the following Data.

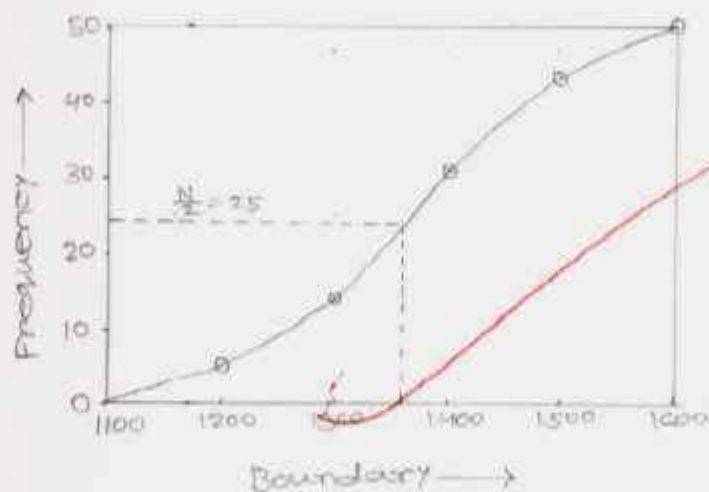
| Boundaries | Frequency | Cumulative |
|------------|-----------|------------|
| 1100-1200  | 5         | 5          |
| 1200-1300  | 9         | 14         |
| 1300-1400  | 17        | 31         |
| 1400-1500  | 12        | 43         |
| 1500-1600  | 7         | 50         |

$$\text{Median} = L_1 + \frac{\frac{N}{2} - cy}{f} \times i$$

$$= 1300 + \frac{\frac{50}{2} - 14}{17} \times 100$$

$$= 1300 + \frac{11}{17} \times 100$$

$$= 1300 + 64.705 = 1364.705 \text{ (Median)}$$



Mode:

Mode কথায় অর্থ হল ডাটাসমূহের মধ্যে পরিভ্রমিত বর্তনের মধ্যে যে মানটি উর্ধ্বাধিক বারবার ব্যবহৃত হয়েছে তাকে Mode বলে। অর্থাৎ পরিভ্রমিত বর্তনের যে মান অন্য মানগুলিকে প্রভাবিত করে তাকে Mode বা ডাটাসমূহ বলা হয়।

Formula:  $L_1 + \frac{\Delta_1}{\Delta_1 + \Delta_2} \times i$

When,

$L_1$  = Lower limit of the modal class

$\Delta_1 = f_1 - f_0$      $\Delta_2 = f_1 - f_2$

$f_1$  = Frequency of Modal class

$f_0$  = F of the preceding of the Modal class

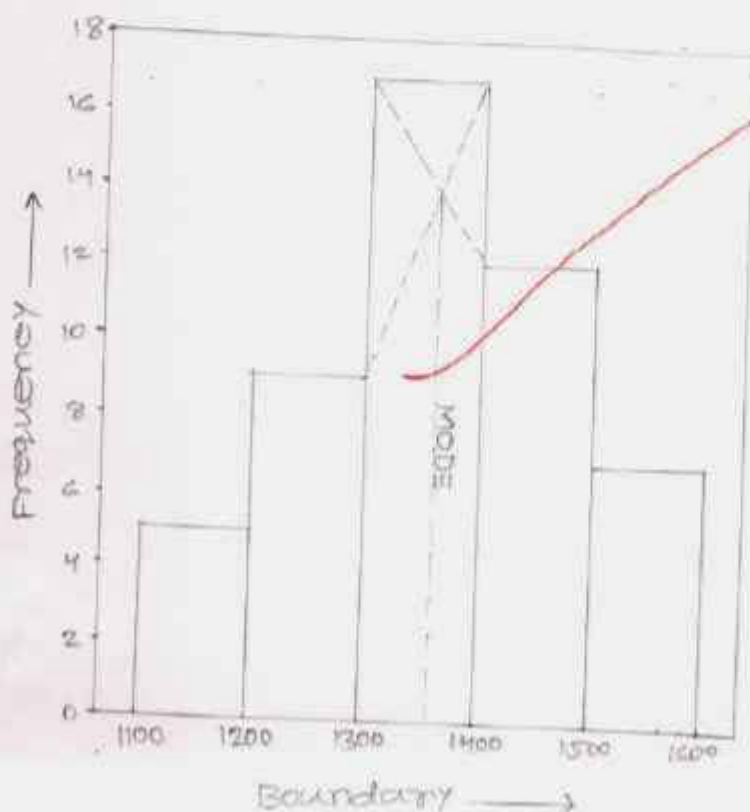
$f_2$  = F of the class succending

$i$  = class interval

8. Find out the Mode :

| Boundary  | Frequency |
|-----------|-----------|
| 1100-1200 | 5         |
| 1200-1300 | 8         |
| 1300-1400 | 17 *      |
| 1400-1500 | 12        |
| 1500-1600 | 7         |

$$\begin{aligned}
 \text{Mode} &= L_1 + \frac{\Delta_1}{\Delta_1 + \Delta_2} \times i \\
 &= 1300 + \frac{8}{8+5} \times 100 \\
 &= 1300 + \frac{8}{13} \times 100 \\
 &= 1300 + 61.538 \\
 &= 1361.538
 \end{aligned}$$





Botany

# BANKURA UNIVERSITY



## ASSIGNMENT 1

**UID NO** – 22173013010

**REGISTRATION NO** – BkU/08682.

**SEMESTER** – 1st sem.

**SUBJECT** – Botany.

**TOPIC** - Evolution Sex in Algae.

**SESSION** 2022-23.



# EVOLUTION OF SEX IN ALGAE

## INTRODUCTION:-

The evolution of plant body have been accompanied with progressive development of reproductive methods. In most primitive forms, reproduction was by cell division by zoospore formation. Then the sexual reproduction develops which is effected by special cell known as gametes. The resulted zygote develops in a new plant.

## EVOLUTION OF SEX:-

- The member of Myxophyceae do not show any trace of sexuality.
- In other classes of algae sexuality has been established.
- ~~Name~~ Now to trace out evolution of sex in algae it is necessary to know about the nature of gamete in the beginning.

- The evolution of sex takes place by a different process.

① Isogamy    ② Anisogamy    ③ Oogamy.

I Isogamy : • Fusion of identical gametes seems to be the earliest state of sex. However the morphologically similar gametes may be different in origin, arising from two different gametic mating types, plus and minus strains.

• The simplest early state appears to be the fusion (not any accidental but regularised) of morphologically similar gametes, perhaps arising from ~~the~~ the same thallus - homothallic isogamy. This is improved further by heterothallic isogamous fusion, in which though gametes looked morphologically similar but with genetical and biochemical difference to encourage fusion of opposite mating types, plus and minus only (e.g. *Ulva* & *Chlamydomonas*).

Anisogamy :- Anisogamy constitutes an intermediary state as it may involve fusion gametes with different size. (e.g. in *Chlamydomonas* and *Pardosima*). Although both gametes are flagellated, the bigger one may be less active than the smaller male gametes. Further refinement ultimately led to oogamy - which is most common and the only form of sexual reproduction in higher thalloid algae.

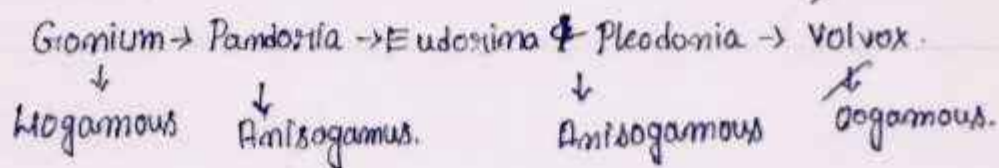


**Oogamy :-** The oogamy is highly evolved condition of heterogamous.

In oogamy one cell does not divide it simple in large (increases) in size accumulate food material and acts as egg. The other cell divide repeatedly produce small motile cell acting as male gamete.

- ⊙ However in polysiphonia the male gamete are non-motile.
- ⊙ Less evolved oogamy is found in *Chlamydomonas volva* and *Oedogonium*.

The evolution of sex in algae has not taken place in any one phylogenetic line. This has taken place along several independent line. The example of this statement found in valvales.



In few green algae. e.g. - *Spizogynia*, *Vaucheria*, and *Chara* and in all brown and red algae a more advanced condition has been reached.

⊙ **Spizogynia** :- Two uniting gametes inside vegetative cell known as gametangia it is not different those who receive content considered as female and other male.

⊙ **Vaucheria** :- It develops an gametangia.

⊙ **Chara** :- Sex organ confined at node on branch of limited growth known as globule (♂) and nucule.

⊙ **Brown algae** :- Posses fertile conceptacle which contain male and female sex organ the oogonia may be liberated before fertilization and fertilization takes place in water.

⊙ **Red algae (Polysiphonia)** - Male spermata are non motile which reach to Oogonia with the help of water current.

On the basis of above example it is quite clear that there is no evolutionary sequence in the evolution of sex in algae.



## Conclusion:-

It may be concluded that in the evolution of sex in algae, the differentiation of gametes is associated with the differentiation of sex organ. It also shows that evolution of sex in algae has taken place from simplest type of the highest evolved type.

## Reference :

A Text book of botany.

- ① Hain, Bhattacharya, Ghosh.
- ②

Am  
24/2/23

# RAMANANDA COLLEGE

NAME :- PRIYA DEY.

UID :- 22173013011

ASSIGNMENT COPY-II  
AOSPORY AND APOGAMY

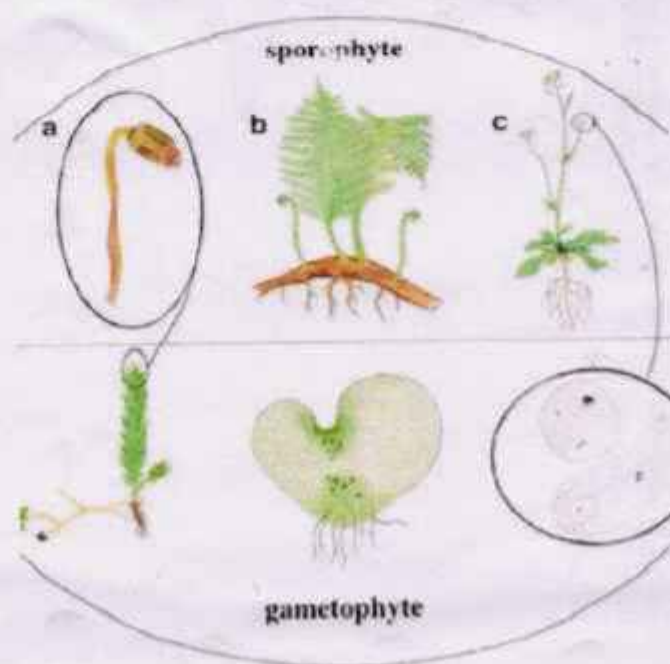
DATE OF SUBMISSION : 24.02.23



Introduction:-

Apospory first demonstrated by Dhuey in 1884 as a natural phenomena in Athyrium felix-femina var. elapissia. And apogamy first observed by Farlow in 1874 in Pteris erecta, the term apogamy was introduced by de Bary in 1878.

Apospory and apogamy both mean the production of spores without any fertilization. Both occur only in plants, where spore formation takes place instead of sexual reproduction or without it.

Discussion:-APOSPORY

Apospory is a type of asexual reproduction in which a new plant is formed on already mature spore. Development of gametophyte directly from the vegetative cells of sporophyte without the formation of spores is known as apospory. In this process diploid gametophyte ( $2n$ ) is formed from the vegetative cells of the sporophyte ( $2n$ ), without meiosis and formation of spores.

TYPES OF APOSPORY

① Generative Apospory:- Generative apospory is also called as diplospory. In generative apospory, the megagametophytes arise from a cell of archesporium.

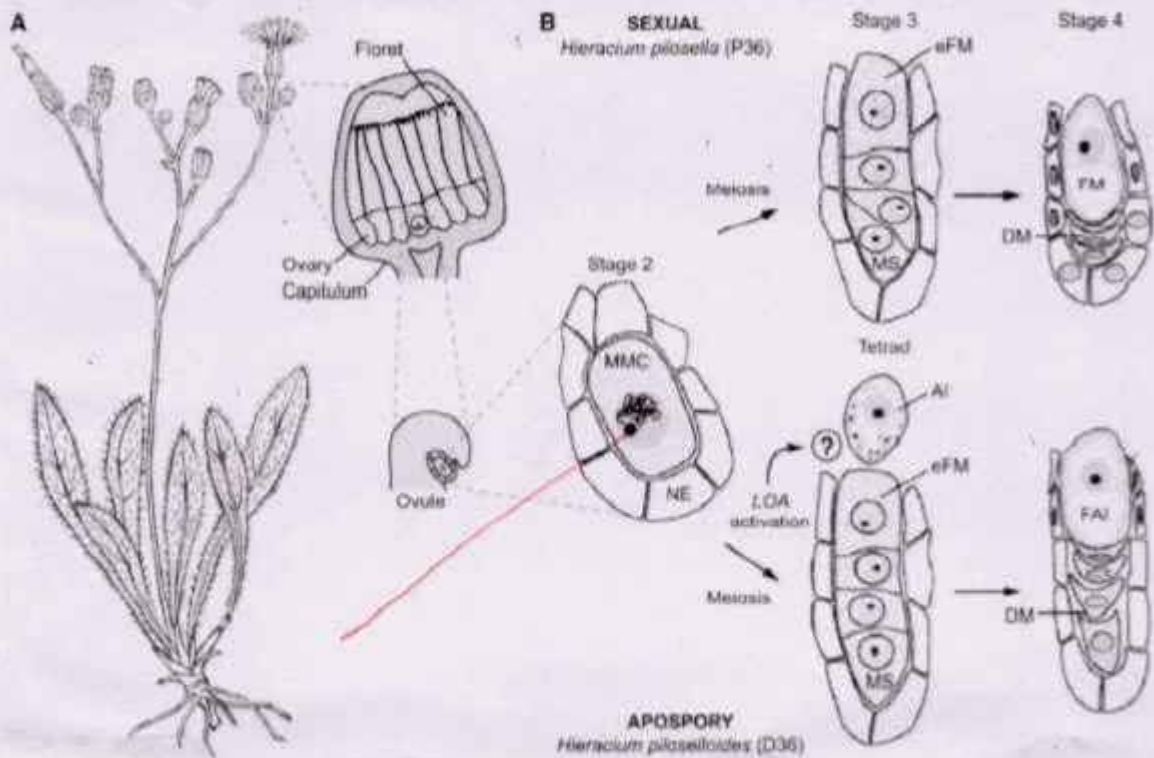
(ii) Somatic Apospory :- Somatic apospory is the process of production of megagametophyte from some other cells or mostly somatic cells of the nucellus.

Factors Regulating Apospory :-

(i) Nutrition :- Complete absence of carbohydrate in growth medium (called starvation medium) induces development of aposporous gametophytes.

(ii) Light Intensity :- Low light intensity favours development of aposporous gametophyte.

(iii) Age of sporophytic cells :- young cells, like shoot apex and leaf tip form gametophytes whereas basal part of shoot or leaf regenerate sporophytic tissue.





## APOGAMY

Development of sporophyte from the gametophytic tissue without fusion of gametes is known as apogamy. Apogamy is a unique process of asexual reproduction in ferns, in which the development of haploid sporophyte ( $n$ ) occurs from a haploid gametophyte ( $n$ ) without the fusion of gametes.

### TYPES OF APOGAMY

(i) Obligate Apogamy :- The apogamous sporophytes occur naturally due to the absence of or nonfunctional nature of one or both sex organs.

Example :- Dryopteris, Adiantum etc.

(ii) Induced or facultative Apogamy :- When the apogamy is induced in gametophytes having functional antheridia and archegonia.

### Factors Regulating Apogamy :-

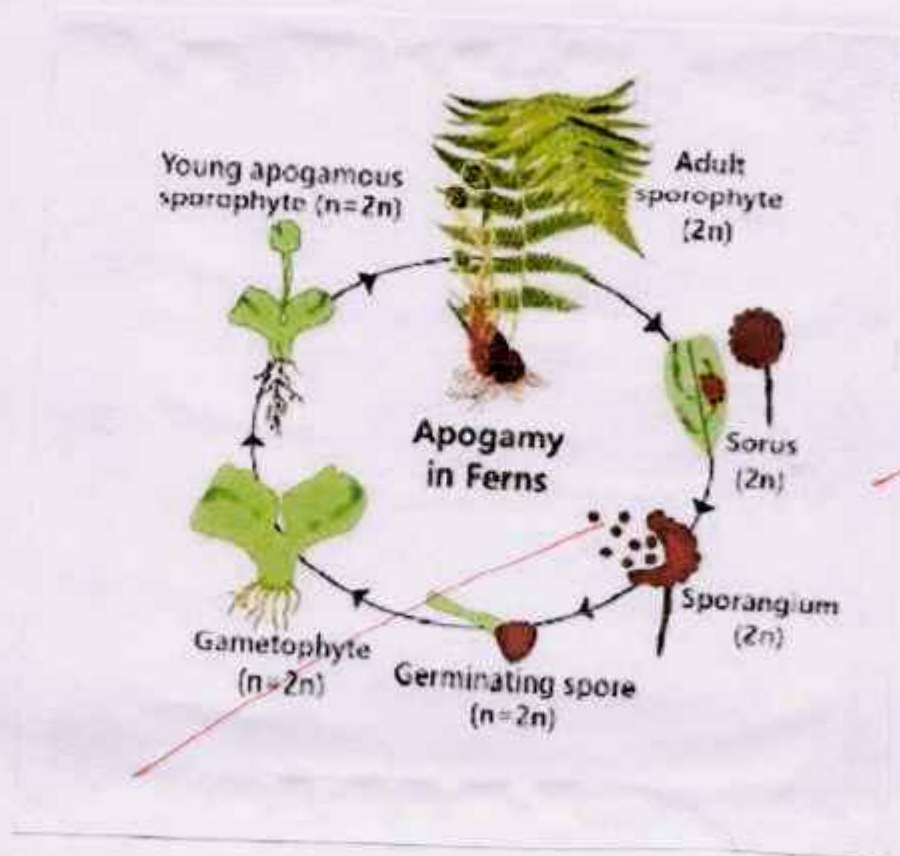
(i) Nutritional Factors :- Apogamous sporophytes are obtained in the gametophytes are placed in 4% sucrose solution at initiative phase.

(ii) Light Quality :- Far-red light (705 nm) has been found to be most effective in inducing apogamous development of sporophyte followed by blue (445 nm) & white light.

(iii) Hormones :- Presence of hormones like 2,4-dichlorophenoxy acetic acid (2,4, D), (GA3) gibberellic acid, indole 3-acetic acid (IAA) and tryptophan stimulates gametophytes to produce apogamous sporophytes even at very low concentration of carbohydrates.

(iv) Chromosome Number :- Apogamy is more prevalent in polyploid gametophytes in normal haploid prothalli.





Conclusion :- Apogamy and apospory are the two asexual reproductive modes in some plants. The formation of gametes does not occur in apogamy and apospory. The gametophyte and sporophyte share the same ploidy level in both phenomena. Both these processes are important in the alternation of generation in plants.

(H)  
v. chaitanya

# BANKURA UNIVERSITY



## ASSIGNMENT 2

**UID NO** - 22173013010

**REGISTRATION NO** - BkU/08682.

**SEMESTER** - 1st Sem.

**SUBJECT** - Botany

**TOPIC** - Fossile Gymnosperm.

**SESSION** 2022-23.



# FOSSIL GYMNOSPERMS

## INTRODUCTION

Gymnosperms means (Greek: gymnos = naked: Sperma-seed) i.e. the plants with naked seeds. Gymnosperms are phanerogams or spermatophytes without ovary and fruit. Their seeds or ovules are naked or exposed, without a fruit wall. They are therefore considered as fruitless flowering plants and are referred to "Phanerogams without ovary".

Gymnosperm seeds develop either on the surface of scale - or leaf-like appendages of cones, or at the end of short stalks (Ginkgo).

The word gymnosperm is coined by Theophrastus in 300 B.C. and called them "plants with naked seeds".

Fossils (from Latin fossus literally "having been dug up") are the preserved remains or traces of animals, plants, and other organisms from the remote past. The totality of fossils, both discovered and undiscovered, and their placement in fossiliferous (fossil-containing) rock formation and sedimentary layers (strata) is known as the fossil record.

## LYGINOPTERIS

Class → Cycadopsida.  
Order → Pteridospermales.  
Family → Lyginopteridaceae.

### ⊙ Lyginopteris

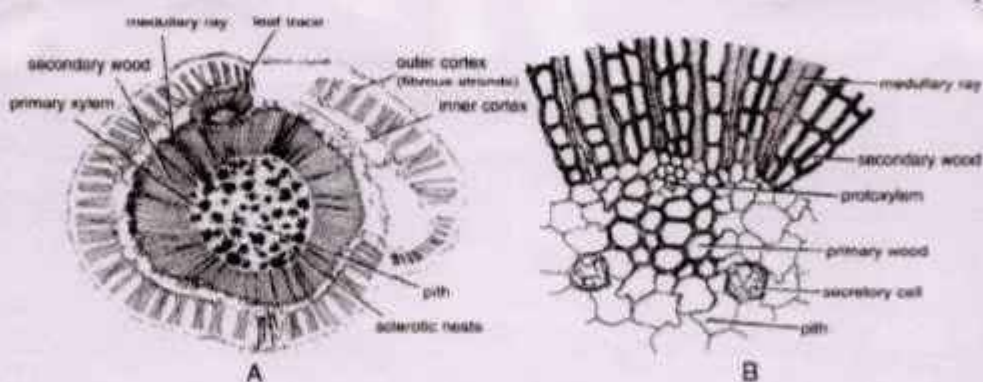
Plants are vine-like with large fronds. The stem was erect, branched, 2 mm to 4 mm in diameter. The leaves were bi- or tripinnately compound and arranged spirally on the stem. The pinnae were borne at right angles to rachis and were arranged opposite to each other. The pinnae bore pinnules.

**Male Fructification :-** *Crossotheca* is generally regarded as the male fructification.

- In *Crossotheca*, a number of boot shaped bilocular microsporangia were arranged radially on the underside of discs.
- Microsporangia were borne as elongate pendant appendages on the ultimate pinnae of the frond. The fertile fronds resemble minute hairbrushes.
- The sporangia lack annulus and resembles those of *Cycas*. On dehiscence, the microspores were carried by wind. The microspores are spherical with the tri-radiate markings (trilete).

**Female Fructification :-** Female fructification discovered from upper Carboniferous (*Logenostoma oldhamia*).

- The ovules are basrel shaped with single stout integument. The ovules are covered with protective covering called the cupule. These cupules bear capitate glands. The ovule is Orthotropous and consists of well developed nucellus. The nucellus apex has a hollow pollen chamber (*Logenostome*).
- The pollen chamber in this ovule is conical in shape and has a central core of tissue shaped like inverted bell. This is known as the central column of the pollen chamber.
- The pollen chamber is formed as result of formation of flask shaped prolongation from the nucellar tip. The central column arises from the base of the flask shaped pollen chamber.



*Equisetum*. A. T.s. of stem (outline); B. T.s. stem— a part cellular.



# WILLIAMSONIA

Class:- Cycadopsida

Order :- Bennettitales (Cycadeoideales)

Family:- Williamsonsaceae.

Williamson (1870) described first species of genus separated from Jurassic era named *Williamsonia gigas*.

The plants were tall, slender, branched palm like reaching upto height of 2m. The trunk is beset with rhomboidal scars left by the fallen leaves.

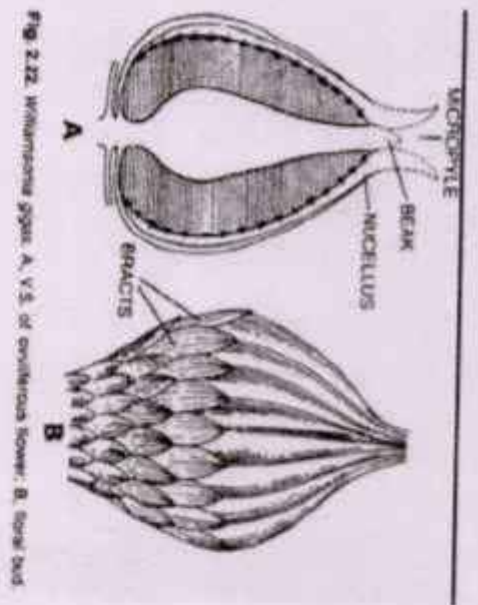
**Female flower:-** The female flowers in *W. gigas* and *W. savatiana* have a distinct conical receptacle surrounded by simple perianth like bracts, that had scales at their bases.

The stalked ovules and interse-minal scales were arranged in close spirals around the conical receptacle. The tip of receptacle was naked.

**Male flower:-** In *Williamsonia samalemsis*, the microsporophyll were bilid, one half is sterile, where as the other half was fertile and bore two rows of finger like stamangia.

The stamangia are arranged along the inner of the microsporophylls.

Most of the other male flowers, however bore their pollen in purse like 'capsules' described as stamangia.  $\Rightarrow$  The male flowers are not branched in *Williamsonia whitblensis*.



# GILOSSOPTERIS

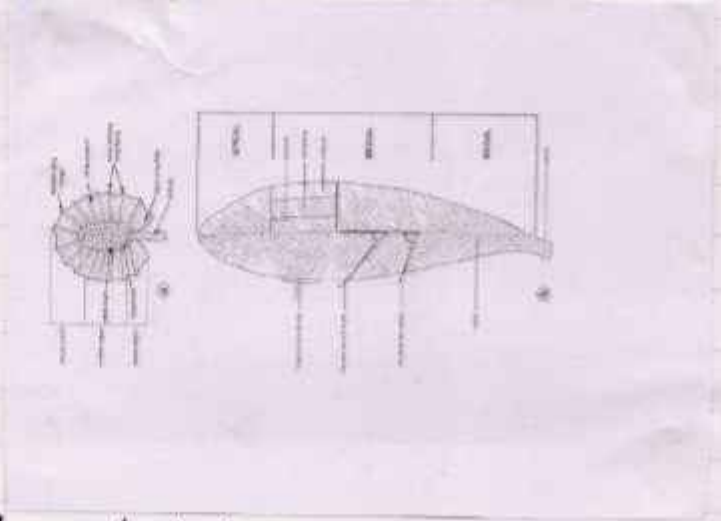
Class :-

Order :- *Gilassopteridales* ✓

Family :- *Gilassopteridaceae*.

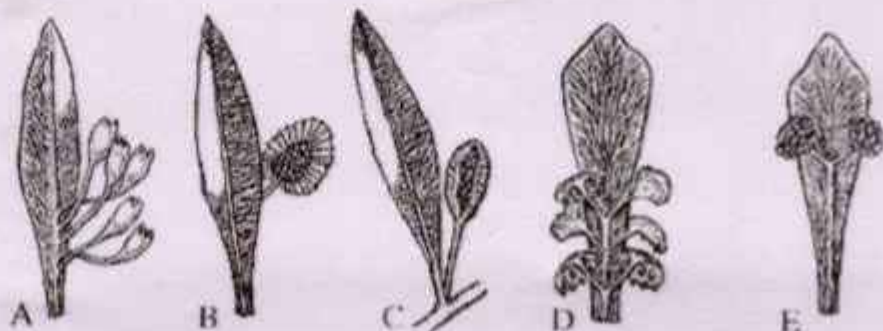
The detached roots of *Gilassopteris* plant are called vertebrae. The roots are flattened and grooved with wedge-like sectors that radiate from the centre of the axis. *Gib*

*Gilassopteris* leaves are simple, entire and sessile. Leaves show a great variation in size and shape. They have a strong midrib from which numerous longitudinally running veins pass out to form a reticulate pattern or remain free.



**Male Fructifications of *Gilassopteris* :-** Exetmonia pollen organ consists of a fertile petiolate lamina of triangular to rhomboidal in outline. Two branches bearing whorls of microsporangia are borne on upper part of the lamina. After dehiscence, the sporangia look purse-shaped due to the longitudinal rupture.

**Female Fructifications :-** The dorsiventral structure bearing seeds of *Gilassopteridales* are variously termed as capitulum, megasporophyll, cupule, fertiliger or cladode. It has two bilaterally concave symmetrical valves. A wing-valves join. Small sac-like structure are present in the concavity of both the halves.





Conclusion :- Study of plants remain as a fossils have more applications like ->

- ① Correlation of different rock beds of different geographic localities.
  - ② To fix the geological age for the sediments.
  - ③ To determine the depositional conditions during sedimentary formation.
- The fossil studies the key to the past environment.

References :

- Palaeobotany: The Biology and Evolution of fossil plants by Edith L. Taylor, Thomas N. Taylor, Michael Krings, (2009).
- Palaeobotany and the Evolution of plants, by Wilson N. Stewart, Gary W. Rothwell (1999.)

~~Am~~ 24/2/23

# BANKURA UNIVERSITY



## ASSIGNMENT 1

**UID NO** - 22173013002

**REGISTRATION NO** - 00855 - 2019-20

**SEMESTER** - 1st SEMESTER

**SUBJECT** - BOTANY

**TOPIC** - INDUSTRIAL USES OF ALGAE

**SESSION** - 2022-23





Laminaria SP



Ascophyllum SP



Chondrus crispus



Gelidium SP



Gracilaria SP



Macrocystis pyrifera

Some different types of algae



# INDUSTRIAL USES OF ALGAE

ALGAE Algae is a group of organisms that are predominantly aquatic, nucleus-bearing and photosynthetic. Algae do not have stems, leaves, roots, or reproductive structures like plants.

In industry algae have a vital role. Algae is used in many industrial products. Algae is providing itself to be one of the most promising and long term source for food, medicine, cosmetics and other industrial products. From algae we get i) Alginate ii) Carrageenan iii) Agar which are used in industries.

i) Alginate - Alginic acid and its salts (alginates) are produced from members of Phaeophyceae, such as Laminaria sp, Ascophyllum sp. Alginic acid is basically made of  $\beta$ -1,4 mannuronic acid units that have a variable amount of gulonic acid units attached through C-1 and C-4 link.

Production of ice cream - Alginate is used in making ice cream. This prevents the water in ice cream from forming coarse ice crystals and produce smoother product.

Textile industry - In textile industry, alginates are used as thickeners for the paste containing dye which are used for printing fabrics including cotton, nylon, silk etc.

Paper industry - Alginate is used for prevents the paper from absorbing ink on drying, and also used to increase the smoothness.

Pharmaceutical industry - Alginates are used in manufacture of capsules. It is also used in preparing dental molds.

ii) Carrageenan - Carrageenan are linear polymers of alternating molecules of (1-3) $\beta$ -galactose and (1-4) $\alpha$ -galactose. It is obtained from Chondrus crispus and other some species of algae.





**Some industrial products where algae is used**

Food Industry - Carrageenan is used in making ice cream, yoghurt, chocolate milk cream etc.

ii) Carrageenan is used in making toothpaste by acting as a stabilizer to prevent constituents separating.

Pharmaceuticals - Carrageenan has antiviral, anticoagulant, and ~~tumor~~, anti-inflammatory and immunomodulatory effect that has various medical activities.

iii) Agar - Agar is obtained commercially from species of Gelidium, Gracilaria, Phaeocladia, and Ahnfeltia. It is composed of two polysaccharides agarose and agarpectin.

Food Industry - Its gelling and thickening property is used in manufacture of processed cheese, mayonnaise, pudding, creams, bakery, Jam, Candy, fruit yogurts.

ii) In meat industry it is used in reduction of fat content in order to reduce cholesterol.

Pharmaceuticals - In pharmaceuticals, agar is used as a laxative. It is also used in preparation of emulsions, suspensions and capsules.

It is also used as stiffening agent for growth media in bacteriology and mycology. Agar has been long used to solidify media in plant tissue culture.

Moisturizer - Some protein and their hydrolyzates from genus Porphyra, Spirulina and Chlorella have strong affinity with skin and hair moisture retention.

Anti aging - Extracts of Morinda sp, Chlorella sp, Arthrospira, Chlorella, Volvox are used as anti aging cream that reduce the signs and symptoms of aging.

Hair care - Extracts of Morinda sp, Chlorella sp are proposed for formulation to prevent hair loss. Chlorella contains oil which have the ability to soften hair.



## References

- i) Atkin, E.D.T Mackie, W. Snelko, E.E (1970) Crystalline Structures of alginic acids, Nature 225,
- ii) Onsoyem E. (1996) Commercial applications of alginates, Carbohydr. Eur. 19,
- iii) Indira Priyadarshani and Bidawat-Rath, "Commercial and industrial applications of micro algae - A review", J. Algal Biomass Util. 2012 3(4): 89-10
- iv) Spoladore, P.; Joannis-Cassan, C. Duran, E. Tsambez, A. Commercial Application of microalgae. J. Biosci. Bioeng. 2006, 101, 87-96
- v) Gargima Goswami, Niral Bang, Shubham Agarwal. Diverse Applications of Algae. IJARSE, Vol. No-4, March 2015.
- vi) Bhattacharjee M. (2016) Pharmaceutically valuable bioactive compounds of algae, Asian J Pharm Clin Res 9, 43-47
- vii) Pütz O, Gross W. (2004) Valuable Products from biotechnology of microalgae. & quot;; APPL. Microbiol. Biotechnol 65,

Sumit  
24/2/23

English



Ramananda College  
Department of English  
Home Assignments 2022-23  
UG Honours Semester 5

Course Code: UG-ENG-504/DSE-2  
Course Title: Science Fiction and Detective Literature

Date of Sending: 27.09.2022

Total Marks: 10 (10 × 1)

Date and Time of Submission: 28.09.2022 (Wednesday), by 5 p.m.

## INSTRUCTIONS

Please submit hard copies of your **hand-written** answers to me by the date and time mentioned earlier.

At the top of the answer script, please write these five things clearly:

- a. Name
- b. UID
- c. Semester
- d. Course Code
- e. Course Title

Please answer any **one** out of the **three** questions given.

For each question, the **maximum** word limit per answer is 800 words. Please do not write answers longer than 800 words.

## QUESTIONS

1. Which elements of Gothic fiction can be found in the modern detective story? Discuss with examples.
2. How is the "golden age" crime fiction novel different from the "noir" crime fiction novel? Discuss with examples.
3. Analyse Chapter 1 of *The Big Sleep* to demonstrate how class differences in U.S. society are highlighted in the novel. You may provide examples from the rest of the novel and other noir fiction to support your arguments.

Ramananda College  
Department of English  
Home Assignments 2022-23  
PG Semester 3

Course Code: PG-ENG 301C  
Course Title: Literary Criticism: Theory and Interpretation I

Date of Examination: 27.09.2022

Total Marks: 10 (10 × 1)

Date and Time of Submission: 28.09.2022 (Wednesday), by 5 p.m.

### INSTRUCTIONS

Please submit hard copies of your **hand-written** answers to me by the date and time mentioned earlier.

At the top of the answer script, please write these five things clearly:

- a. Name
- b. UID (if you do not have a UID, please enter your College Roll Number)
- c. Semester
- d. Course Code
- e. Course Title

Please answer any **one** out of the **two** questions given.

For each question, the **maximum** word limit per answer is 800 words. Please do not write answers longer than 800 words.

### QUESTIONS

1. How important is "appropriateness" to Plato? Discuss with reference to his dialogues.
2. Are Aristotle's ideas about the unity of plot valid? Discuss with examples of your choice.



**Ramananda College**  
**Department of English**  
**Home Assignments 2022-23**  
**UG Programme Semester 5**

**Course Code: AP-ENG-501/DSE-1A**  
**Course Title: Literature of the Indian Diaspora**

**Date of Sending: 27.09.2022**

**Total Marks: 10 (10 × 1)**

**Date and Time of Submission: 28.10.2022 (Wednesday), by 5 p.m.**

### **INSTRUCTIONS**

Please submit hard copies of your **hand-written** answers to me by the date and time mentioned earlier.

At the top of the answer script, please write these five things clearly:

- a. Name
- b. UID
- c. Semester
- d. Course Code
- e. Course Title

Please answer any **one** out of the **three** questions given.

For each question, the **maximum** word limit per answer is 800 words. Please do not write answers longer than 800 words.

### **QUESTIONS**

1. Discuss the significance of the last episode of, "We Are Not in Pakistan", where Kathleen starts talking to the girl wearing the hijab.
2. Discuss how "When Mr. Pirzada Came to Dine" highlights the importance of sharing food among South Asians, even when they are abroad.
3. Show how the servant in "One Out of Many" realizes that he is truly independent in the USA.

# Teaching Module



# Zoology

**Faculty mapping & Syllabus distribution of the Department of Zoology**  
(For Odd Semester, i.e.; I, III & V) From July-December, 2023

| Semester              | Course ID | Course Code     | Course Title   | Name of the Faculty                                      |
|-----------------------|-----------|-----------------|--|--|
| 1 <sup>st</sup> . SEM |           | S/ZOO/101/MJC-1 | Non Chordate Diversity<br>(Theory & Practical)   | Dr. Nilanjana Chatterjee<br>&<br>Prof Anindita Bar       |
| 1 <sup>st</sup> . SEM |           | S/ZOO/102/MN-1  | Non Chordate<br>(Theory & Practical)   | Prof Prakash Kr. Santra<br>&<br>Prof Anindita Bar        |
| 1 <sup>st</sup> . SEM |           | S/ZOO/103/MD-1  | Sericulture & Silk Production<br>Technology (Theory)<br>(For students of other discipline) | Dr. Nilanjana Chatterjee<br>&<br>Prof Prakash Kr. Santra |
| 1 <sup>st</sup> . SEM |           | S/ZOO/104/SEC-1 | Sericulture (Theory)   | Prof Prakash Kr. Santra                                  |

| Semester              | Course ID | Course Code       | Course Title   | Name of the Faculty                                    |
|-----------------------|-----------|-------------------|--|--|
| 3 <sup>rd</sup> . SEM | 32611     | UG/ZOOH/301/C-5   | Diversity of Chordata (Th + Pr)                                      | Prof Anindita Bar                                      |
| 3 <sup>rd</sup> . SEM | 32612     | UG/ZOOH/302/C-6   | Animal Physiology: Controlling and<br>Co-ordinating system (Th + Pr) | Prof Prakash Kr. Santra                                |
| 3 <sup>rd</sup> . SEM | 32613     | UG/ZOOH/303/C-7   | Fundamental of Biochemistry<br>(Theory & Practical)                  | Dr. Nilanjana Chatterjee                               |
| 3 <sup>rd</sup> . SEM | 32615     | UG/ZOOH/305/SEC-1 | Apiculture (Theory)  | Prof. Madhumita Mandi<br>&<br>Prof. Prakash Kr. Santra |
| 3 <sup>rd</sup> . SEM | 32614     | UG/ZOOH/304/GE-3  | Environment and Public Health<br>(Theory & Practical)                | Prof Anindita Bar<br>&<br>Prof Madhumita Mandi         |
| 3 <sup>rd</sup> . SEM | 32618     | SPZOO/301/C-1C    | Physiology & Biochemistry<br>(Theory & Practical)                    | Dr. Nilanjana Chatterjee                               |
| 3 <sup>rd</sup> . SEM | 32610     | SPZOO/304/SEC-1   | Apiculture (Economic Zoology)<br>(Theory)                            | Prof. Madhumita Mandi                                  |

| Semester              | Course ID | Course Code       | Course Title  | Name of the Faculty                                   |
|-----------------------|-----------|-------------------|---|---|
| 5 <sup>th</sup> . SEM | 52611     | UG/ZOOH/501/C-11  | Molecular Biology<br>(Theory & Practical)                                 | Dr. Nilanjana Chatterjee                              |
| 5 <sup>th</sup> . SEM | 52612     | UG/ZOOH/502/C-12  | Principles of Genetics<br>(Theory & Practical)                            | Prof Anindita Bar                                     |
| 5 <sup>th</sup> . SEM | 52616     | UG/ZOOH/503/DSE-1 | Animal Behavior & Chronobiology<br>(Theory & Practical)                   | Prof. Prakash Kr. Santra                              |
| 5 <sup>th</sup> . SEM | 52617     | UG/ZOOH/504/DSE-2 | Biology of Insecta<br>(Theory & Practical)                                | Prof Madhumita Mandi<br>&<br>Prof. Prakash Kr. Santra |
| 5 <sup>th</sup> . SEM | 52618     | SPZOO/501/DSE-1A  | Applied Zoology<br>or<br>Insect Vector & Diseases<br>(Theory & Practical) | Prof Anindita Bar                                     |
| 5 <sup>th</sup> . SEM | 52610     | SPZOO/504/SEC-3   | Sericulture (Economic Zoology) Old<br>Syllabus (Theory)                   | Prof Madhumita Mandi                                  |



*Santra*  
Head 11/09/23

Department of Zoology  
HEAD  
DEPARTMENT OF ZOOLOGY  
RAMANANDA COLLEGE  
BISHNUPUR, BANKURA



**Faculty mapping & Syllabus distribution of the Department of Zoology**  
(For Odd Semester, i.e.; I, III & V) From July-December, 2023

| Semester              | Course ID | Course Code     | Course Title   | Name of the Faculty                                      |
|-----------------------|-----------|-----------------|--|--|
| 1 <sup>st</sup> . SEM |           | S/ZOO/101/MJC-1 | Non Chordate Diversity<br>(Theory & Practical)   | Dr. Nilanjana Chatterjee<br>&<br>Prof Anindita Bar       |
| 1 <sup>st</sup> . SEM |           | S/ZOO/102/MN-1  | Non Chordate<br>(Theory & Practical)   | Prof Prakash Kr. Santra<br>&<br>Prof Anindita Bar        |
| 1 <sup>st</sup> . SEM |           | S/ZOO/103/MD-1  | Sericulture & Silk Production<br>Technology (Theory)<br>(For students of other discipline) | Dr. Nilanjana Chatterjee<br>&<br>Prof Prakash Kr. Santra |
| 1 <sup>st</sup> . SEM |           | S/ZOO/104/SEC-1 | Sericulture (Theory)   | Prof Prakash Kr. Santra                                  |

| Semester              | Course ID | Course Code       | Course Title  | Name of the Faculty                                    |
|-----------------------|-----------|-------------------|---|--|
| 3 <sup>rd</sup> . SEM | 32611     | UG/ZOOH/301/C-5   | Diversity of Chordata (Th + Pr)                                     | Prof Anindita Bar                                      |
| 3 <sup>rd</sup> . SEM | 32612     | UG/ZOOH/302/C-6   | Animal Physiology: Controlling and<br>Co-ordinating system(Th + Pr) | Prof Prakash Kr. Santra                                |
| 3 <sup>rd</sup> . SEM | 32613     | UG/ZOOH/303/C-7   | Fundamental of Biochemistry<br>(Theory & Practical)                 | Dr. Nilanjana Chatterjee                               |
| 3 <sup>rd</sup> . SEM | 32615     | UG/ZOOH/305/SEC-1 | Apiculture (Theory)   | Prof. Madhumita Mandi<br>&<br>Prof. Prakash Kr. Santra |
| 3 <sup>rd</sup> . SEM | 32614     | UG/ZOOH/304/GE-3  | Environment and Public Health<br>(Theory & Practical)               | Prof Anindita Bar<br>&<br>Prof Madhumita Mandi         |
| 3 <sup>rd</sup> . SEM | 32618     | SPZOO/301/C-1C    | Physiology & Biochemistry<br>(Theory & Practical)                   | Dr. Nilanjana Chatterjee                               |
| 3 <sup>rd</sup> . SEM | 32610     | SPZOO/304/SEC-1   | Apiculture ( Economic Zoology)<br>(Theory)                          | Prof. Madhumita Mandi                                  |

| Semester              | Course ID | Course Code       | Course Title  | Name of the Faculty                                   |
|-----------------------|-----------|-------------------|---|---|
| 5 <sup>th</sup> . SEM | 52611     | UG/ZOOH/501/C-11  | Molecular Biology<br>(Theory & Practical)                                 | Dr. Nilanjana Chatterjee                              |
| 5 <sup>th</sup> . SEM | 52612     | UG/ZOOH/502/C-12  | Principles of Genetics<br>(Theory & Practical)                            | Prof Anindita Bar                                     |
| 5 <sup>th</sup> . SEM | 52616     | UG/ZOOH/503/DSE-1 | Animal Behavior & Chronobiology<br>(Theory & Practical)                   | Prof. Prakash Kr. Santra                              |
| 5 <sup>th</sup> . SEM | 52617     | UG/ZOOH/504/DSE-2 | Biology of Insecta<br>(Theory & Practical)                                | Prof Madhumita Mandi<br>&<br>Prof. Prakash Kr. Santra |
| 5 <sup>th</sup> . SEM | 52618     | SPZOO/501/DSE-1A  | Applied Zoology<br>OR<br>Insect Vector & Diseases<br>(Theory & Practical) | Prof Anindita Bar                                     |
| 5 <sup>th</sup> . SEM | 52610     | SPZOO/504/SEC-3   | Sericulture (Economic Zoology) Old<br>Syllabus (Theory)                   | Prof Madhumita Mandi                                  |



*[Signature]*  
Head 11/09/23

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RISHNUPUR, BANKURA



**Faculty mapping & Syllabus distribution of the Department of Zoology**  
(For Even Semester, i.e.; II, IV & VI) From January-June, 2023

| Semester              | Course ID | Course Code      | Course Title   | Name of the Faculty      |
|-----------------------|-----------|------------------|--|--------------------------|
| 2 <sup>nd</sup> . SEM | 22611     | SH/ZOOH/201/C-3  | Non Chordate -II<br>(Theory & Practical)   | Dr. Nilanjana Chatterjee |
| 2 <sup>nd</sup> . SEM | 22612     | SH/ZOOH/202/C-4  | Cell Biology<br>(Theory & Practical)   | Prof Prakash Kr. Santra  |
| 2 <sup>nd</sup> . SEM | 22614     | SH/ZOOH/203/GE-2 | Aquatic Biology<br>(Theory & Practical)  | Prof Anindita Bar        |
| 2 <sup>nd</sup> . SEM | 22618     | SP/ZOO/201/C-1B  | Comparative anatomy and<br>developmental biology of<br>Vertebrates<br>(Theory & Practical) | Prof. Madhumita Mandi    |

| Semester              | Course ID | Course Code      | Course Title   | Name of the Faculty      |
|-----------------------|-----------|------------------|--|--------------------------|
| 4 <sup>th</sup> . SEM | 42611     | SH/ZOO/401/C-8   | Comparative Anatomy of<br>Vertebrate (Th + Pr)               | Prof. Madhumita Mandi    |
| 4 <sup>th</sup> . SEM | 42612     | SH/ZOO/402/C-9   | Animal Physiology: Life Sustaining<br>System system(Th + Pr) | Prof Prakash Kr. Santra  |
| 4 <sup>th</sup> . SEM | 42613     | SH/ZOO/403/C-10  | Immunology<br>(Theory & Practical)                           | Dr. Nilanjana Chatterjee |
| 4 <sup>th</sup> . SEM | 42615     | SH/ZOO/405/SEC-2 | Aquarium Fish Keeping or<br>Sericulture (Theory)             | Prof Anindita Bar        |
| 4 <sup>th</sup> . SEM | 42614     | SH/ZOO/404/GE-4  | Insect Vector & Diseases<br>(Theory & Practical)             | Prof. Madhumita Mandi    |
| 4 <sup>th</sup> . SEM | 42618     | SP/ZOO/401/C-1D  | Genetics and evolutionary Biology<br>(Theory & Practical)    | Prof Anindita Bar        |
| 4 <sup>th</sup> . SEM | 42610     | SP/ZOO/404/SEC-2 | Aquarium Fish Keeping<br>( Economic Zoology) (Theory)        | Prof. Madhumita Mandi    |

| Semester              | Course ID | Course Code       | Course Title   | Name of the Faculty      |
|-----------------------|-----------|-------------------|--|--------------------------|
| 6 <sup>th</sup> . SEM | 62611     | SH/ZOO/601/C-13   | Developmental Biology<br>(Theory & Practical)          | Dr. Nilanjana Chatterjee |
| 6 <sup>th</sup> . SEM | 62612     | SH/ZOO/602/C-14   | Evolutionary Biology<br>(Theory & Practical)           | Prof Anindita Bar        |
| 6 <sup>th</sup> . SEM | 62616     | SH/ZOO/603/DSE-3  | Fish & Fisheries/ Parasitology<br>(Theory & Practical) | Dr. Nilanjana Chatterjee |
| 6 <sup>th</sup> . SEM | 62617     | SH/ZOO/604/DSE-4  | Endocrinology<br>(Theory & Practical)                  | Prof. Prakash Kr. Santra |
| 6 <sup>th</sup> . SEM | 62618     | SP/ZOO/601/DSE-1B | Aquatic Biology or Immunology<br>(Theory & Practical)  | Prof. Prakash Kr. Santra |
| 6 <sup>th</sup> . SEM | 62610     | SP/ZOO/604/SEC-4  | Medical Techniques Old Syllabus<br>(Theory)            | Prof Madhumita Mandi     |



  
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 Department of Zoology  
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**Faculty mapping & Syllabus distribution of the Department of Zoology**  
(For Even Semester, i.e.; II, IV & VI) From January-June, 2023

| Semester              | Course ID | Course Code      | Course Title   | Name of the Faculty      |
|-----------------------|-----------|------------------|--|--------------------------|
| 2 <sup>nd</sup> . SEM | 22611     | SH/ZOOH/201/C-3  | Non Chordate -II<br>(Theory & Practical)   | Dr. Nilanjana Chatterjee |
| 2 <sup>nd</sup> . SEM | 22612     | SH/ZOOH/202/C-4  | Cell Biology<br>(Theory & Practical)   | Prof Prakash Kr. Santra  |
| 2 <sup>nd</sup> . SEM | 22614     | SH/ZOOH/203/GE-2 | Aquatic Biology<br>(Theory & Practical)  | Prof Anindita Bar        |
| 2 <sup>nd</sup> . SEM | 22618     | SP/ZOO/201/C-1B  | Comparative anatomy and<br>developmental biology of<br>Vertebrates<br>(Theory & Practical) | Prof. Madhumita Mandi    |

| Semester              | Course ID | Course Code      | Course Title   | Name of the Faculty      |
|-----------------------|-----------|------------------|--|--------------------------|
| 4 <sup>th</sup> . SEM | 42611     | SH/ZOO/401/C-8   | Comparative Anatomy of<br>Vertebrate (Th + Pr)               | Prof. Madhumita Mandi    |
| 4 <sup>th</sup> . SEM | 42612     | SH/ZOO/402/C-9   | Animal Physiology: Life Sustaining<br>System system(Th + Pr) | Prof Prakash Kr. Santra  |
| 4 <sup>th</sup> . SEM | 42613     | SH/ZOO/403/C-10  | Immunology<br>(Theory & Practical)                           | Dr. Nilanjana Chatterjee |
| 4 <sup>th</sup> . SEM | 42615     | SH/ZOO/405/SEC-2 | Aquarium Fish Keeping or<br>Sericulture (Theory)             | Prof Anindita Bar        |
| 4 <sup>th</sup> . SEM | 42614     | SH/ZOO/404/GE-4  | Insect Vector & Diseases<br>(Theory & Practical)             | Prof. Madhumita Mandi    |
| 4 <sup>th</sup> . SEM | 42618     | SP/ZOO/401/C-1D  | Genetics and evolutionary Biology<br>(Theory & Practical)    | Prof Anindita Bar        |
| 4 <sup>th</sup> . SEM | 42610     | SP/ZOO/404/SEC-2 | Aquarium Fish Keeping<br>(Economic Zoology) (Theory)         | Prof. Madhumita Mandi    |

| Semester              | Course ID | Course Code       | Course Title   | Name of the Faculty      |
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| 6 <sup>th</sup> . SEM | 62611     | SH/ZOO/601/C-13   | Developmental Biology<br>(Theory & Practical)          | Dr. Nilanjana Chatterjee |
| 6 <sup>th</sup> . SEM | 62612     | SH/ZOO/602/C-14   | Evolutionary Biology<br>(Theory & Practical)           | Prof Anindita Bar        |
| 6 <sup>th</sup> . SEM | 62616     | SH/ZOO/603/DSE-3  | Fish & Fisheries/ Parasitology<br>(Theory & Practical) | Dr. Nilanjana Chatterjee |
| 6 <sup>th</sup> . SEM | 62617     | SH/ZOO/604/DSE-4  | Endocrinology<br>(Theory & Practical)                  | Prof. Prakash Kr. Santra |
| 6 <sup>th</sup> . SEM | 62618     | SP/ZOO/601/DSE-1B | Aquatic Biology or Immunology<br>(Theory & Practical)  | Prof. Prakash Kr. Santra |
| 6 <sup>th</sup> . SEM | 62610     | SP/ZOO/604/SEC-4  | Medical Techniques Old Syllabus<br>(Theory)            | Prof Madhumita Mandi     |



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# Physics



PHYSICS (HONOURS) 2022-2023

SEM I (1)

Core T1 - Mathematical Physics (4 Credits)

| Chapter No. | Topic                                  | Assigned to      |
|-------------|--|------------------|
| 1           | Calculus                               | Amlan Das        |
| 2           | Vector Calculus                        |                  |
| 3           | Orthogonal Curvilinear Coordinates     | Amlan Das        |
| 4           | Fourier Series                         | Amlan Das        |
| 5           | Frobenius Method and Special Functions | Rajesh Mukherjee |
| 6           | Some Special Integrals                 | Rajesh Mukherjee |
| 7           | Partial Differential Equations         |                  |

1.2) Core P1 - Mathematical Physics Lab (2 credits): Rajesh Mukherjee + Saibal Mitra

2.1) Core T2 - Mechanics (4 Credits)

| Chapter No. | Topic                                | Assigned to              |
|-------------|--------------------------------------|--------------------------|
| 1           | Fundamentals of Dynamics             | Amit Dey                 |
| 2           | Work and Energy                      |                          |
| 3           | Rotational Dynamics                  |                          |
| 4           | Fluid Motion                         | Saibal Mitra             |
| 5           | Elasticity                           |                          |
| 6           | Gravitation and Central Force Motion |                          |
| 7           | Non-Inertial Systems                 | Baibaswata Bhattacharjee |
| 8           | Special Theory of Relativity         |                          |

2.2) Core P2 - Mechanics Lab (2 credits): Baibaswata Bhattacharjee + Amit Dey

SEM III (1)

Core T5 - Mathematical Physics-II (4 Credits)

| Chapter No. | Topic                                   | Assigned to      |
|-------------|---|------------------|
| 1           | Complex numbers                         | Rajesh Mukherjee |
| 2           | Complex line integrals                  |                  |
| 3           | Matrix algebra                          |                  |
| 4           | Introduction to Probability             |                  |
| 5           | Dirac Delta function and its properties |                  |
| 6           | Variational calculus in Physics         | Saibal Mitra     |

1.2) Core P5 - Mathematical Physics II Lab (2 Credits): Rajesh Mukherjee + Saibal Mitra

2.1) Core T6 - Thermal Physics (4 Credits)

| Chapter No. | Topic                             | Assigned to              |
|-------------|-----------------------------------|--------------------------|
| 1           | Introduction to Thermodynamics    | Baibaswata Bhattacharjee |
| 2           | Thermodynamic Potentials          |                          |
| 3           | Maxwell's Thermodynamic Relations |                          |
| 4           | Kinetic Theory of Gases           | Amlan Das                |
| 5           | Real Gases                        |                          |

2.2) Core P6 - Thermal Physics Lab (2 Credits): Mrityunjoy Ghosh + Amlan Das

3.1) Core T7 - Digital Systems and Applications (4 Credits)

| Chapter No. | Topic  | Assigned to      |
|-------------|--|------------------|
| 1           | Integrated Circuits  | Saibal Mitra     |
| 2           | Digital Circuits<br>i) Introduction<br>ii) Boolean Algebra<br>iii) Data processing circuits<br>iv) Sequential Circuits |                  |
| 2           | Digital Circuits<br>i) Timers IC 555<br>ii) Shift registers<br>iii) Counters (4 bits)<br>iv) Computer Organization     | Mrityunjoy Ghosh |

3.2) Core P7 - Digital Systems and Applications Lab (2 Credits): Baibaswata Bhattacharjee and Saibal Mitra

4) SEC T2 - Renewable Energy and Energy Harvesting (2 Credits)

| Chapter No. | Topic  | Assigned to              |
|-------------|--|--------------------------|
| 1           | Fossil fuels and Alternate Sources of energy | Baibaswata Bhattacharjee |
| 2           | Solar energy                                 |                          |
| 3           | Wind Energy harvesting                       |                          |
| 4           | Ocean Energy                                 |                          |
| 5           | Geothermal Energy                            | Amit Dey                 |
| 6           | Hydro Energy                                 |                          |
| 7           | Piezoelectric Energy harvesting              |                          |
| 8           | Electromagnetic Energy Harvesting            |                          |
| 9           | Demonstrations and Experiments               |                          |

SEM V

1.1) Core T11 - Quantum Mechanics and Applications (4 Credits)

| Chapter No. | Topic  | Assigned to      |
|-------------|--|------------------|
| 1           | Schrodinger Equation   | Rajesh Mukherjee |
| 2           | General discussion of bound states in an arbitrary potential |                  |
| 3           | Quantum theory of hydrogen-like atoms                        |                  |
| 4           | Atoms in Electric & Magnetic Fields                          | Amit Dey         |
| 5           | Atoms in External Magnetic Fields                            |                  |
| 6           | Many electron atoms  |                  |

1.2) Core P11 - Quantum Mechanics and Applications Lab (2 Credits): Baibaswata Bhattacharjee and Amit Dey

2.1) T12 - Solid State Physics (4 Credits)

| Chapter No. | Topic                                 | Assigned to      |
|-------------|---------------------------------------|------------------|
| 1           | Crystal Structure                     | Mrityunjoy Ghosh |
| 2           | Elementary Lattice Dynamics           |                  |
| 3           | Magnetic Properties of Matter         |                  |
| 4           | Dielectric Properties of Materials    |                  |
| 5           | Ferroelectric Properties of Materials |                  |
| 6           | Elementary band theory                | Amlan Das        |
| 7           | Superconductivity                     |                  |

2.2) Core P12 - Solid State Physics Lab (2 Credits): Mrityunjoy Ghosh and Amlan Das

3.1) DSE T2 - Classical Dynamics (6 Credits)

| Chapter No. | Topic                                  | Assigned to  |
|-------------|--|--------------|
| 1           | Classical Mechanics of Point Particles | Saibal Mitra |
| 2           | Small Amplitude Oscillations           |              |
| 3           | Special Theory of Relativity           | Amlan Das    |
| 4           | Fluid Dynamics                         |              |



4.1) DSE T3 - Nuclear and Particle Physics (6 Credits)

| Chapter No. | Topic  | Assigned to              |
|-------------|--|--------------------------|
| 1           | General Properties of Nuclei                 | Baibaswata Bhattacharjee |
| 2           | Nuclear Models                               |                          |
| 3           | Radioactivity decay                          |                          |
| 4           | Nuclear Reactions                            |                          |
| 5           | Interaction of Nuclear Radiation with matter | Saibal Mitra             |
| 6           | Detector for Nuclear Radiations              |                          |
| 7           | Particle Accelerators                        |                          |
| 8           | Particle physics                             |                          |

PHYSICS (PROGRAMME)  
SEM I Generic

Elective

GE T1 - Mechanics, Electrostatics and Sound (4 Credits)

Chapter 1-6: Mrityunjoy Ghosh

Chapter 7-9: Amit Dey

GE P1 - Mechanics and sound Lab (2 Credits): <sup>Mrityunjoy Ghosh</sup> Baibaswata Bhattacharjee and Amit Dey General

T1 - Physics I (4 Credits)

i) Chapter 1-6: Mrityunjoy Ghosh ii)

Chapter 7-9: Amit Dey

P1 - Physics I Lab (2 Credits): Baibaswata Bhattacharjee and Amit Dey

PHYSICS (GE+PROGRAMME)  
SEM III

Generic Elective

GE T3 - Physical optics and modern physics (4 Credits)

Chapter 1-3: Amlan Das

Chapter 4-6: Rajesh Mukherjee

GE P3 - Physical optics and modern physics Lab (2 Credits): Rajesh Mukherjee and Amlan Das

General

T3- Physics I (4 Credits)

i) Chapter 1-6: Rajesh Mukherjee

ii) Chapter 7-9: Amlan Das

P3- Physics I Lab (2 Credits): Baibaswata Bhattacharjee and Amlan Das

SEC (GE + General) - Renewable Energy and Energy Harvesting (2 Credits)

| Chapter No. | Topic  | Assigned to              |
|-------------|--|--------------------------|
| 1           | Fossil fuels and Alternate Sources of energy | Baibaswata Bhattacharjee |
| 2           | Solar energy                                 |                          |
| 3           | Wind Energy harvesting                       |                          |
| 4           | Ocean Energy                                 |                          |
| 5           | Geothermal Energy                            | Amit Dey                 |
| 6           | Hydro Energy                                 |                          |
| 7           | Piezoelectric Energy harvesting              |                          |
| 8           | Electromagnetic Energy Harvesting            |                          |
| 9           | Demonstrations and Experiments               |                          |

SEM V

DSE I (General): Classical Dynamics (6 Credits)

| Chapter No. | Topic                                  | Assigned to  |
|-------------|--|--------------|
| 1           | Classical Mechanics of Point Particles | Saibal Mitra |
| 2           | Small Amplitude Oscillations           |              |
| 3           | Special Theory of Relativity           | Amlan Das    |
| 4           | Fluid Dynamics                         |              |

Electrical circuits and network skills SEC T6 (2 Credits): Mrityunjay Ghosh

*Bhattacharjee 20/07/22*

Department of Physics  
Ramkrishna College  
Bishnupur, Barisal

English



# Visiting Faculty



# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA

Pin – 722122, West Bengal

UGC Recognized & State Government Aided Institution

Affiliated to Bankura University

(Accredited by NAAC at B++level)

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Tele Fax: (03244) 254427

Mobile: 9434509415

Email: principal@ramanandacollege.org

Website: www.ramanandacollege.org

Date: 01/08/2023

To,  
Mr. Sasthi Mandal

Respected Sir,

I am glad to invite you to take 20 classes on *Computer Basics and Applications (Unit-2) (Course code- SHGEO/305/SEC-1P)* for the UG 3<sup>rd</sup> Semester honours students, *Remote Sensing (Unit 1.1) (Course code- SHGEO/502/C-12P)* for the UG 5<sup>th</sup> Semester honours students of the Department of Geography of Ramananda College.

It will be highly appreciated if you kindly accept the offer letter for the benefit of our students. Details of the syllabus are given below:

1. *Computer Basics and Applications (Unit-2) (Course code- SHGEO/305/SEC-1P)*
2. *Remote Sensing (Unit 1.1) (Course code- SHGEO/502/C-12P)*

Thanking you

  
Yours sincerely

(Dr. Swapna Ghorai)

Principal,

Ramananda College



**Principal**  
**Ramananda College**  
**Bishnupur, Bankura**



# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA

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Mobile: 9434509415

Email: principal@ramanandacollege.org

Website: www.ramanandacollege.org

Date: / / 2023

To,  
Mr. Sasthi Mandal

Respected Sir,

I am glad to invite you to take some classes in *Statistical Method in Geography (Unit-3) (Course code-SHGEO/303/C-7P)* for UG 3<sup>rd</sup> semester and *Computer Basics and Application (Unit-2) (Course code-SHGEO/305/ SEC-1P)* for the UG 5<sup>th</sup> semester students of the Department of Geography of Ramananda College.

It will be highly appreciated if you kindly accept the offer letter for the benefit of our students.

Thanking you

Yours sincerely

(Dr. Swapna Ghorai)

Principal, Ramananda College



Principal  
Ramananda College  
Bishnupur, Bankura





# RAMANANDA COLLEGE

BISHNUPUR \* BANKURA

Pin – 722122, West Bengal

UGC Recognized & State Government Aided Institution

Affiliated to Bankura University

(Accredited by NAAC at B++level)

Tel: (03244)252059

Tele Fax: (03244) 254427

Mobile 9434509415

Email: principal@ramanandacollege.org

Website: www.ramanandacollege.org

Date 01 / 08 / 2023

To,  
Dr. Subrata Ghosh  
Teacher  
Dept. of Geography  
Sadhu Ram Chand Murmu University of Jhargram  
Jhargram, West Bengal

Respected Sir,

I am glad to invite you to take 20 classes on *Computer Basics and Applications (Unit-1) (Course no. SHGEO/305/SEC-1P)* for the UG 3<sup>rd</sup> Semester honours students, *Remote Sensing (Course no. 502/C-12P/Unit-1.2&1.3)* for the UG 5<sup>th</sup> semester honours students, and, *Remote Sensing (Course no. 504/SEC-3)* for the UG 5<sup>th</sup> semester program students of the Department of Geography of Ramananda College.

It will be highly appreciated if you kindly accept the offer letter for the benefit of our students. Details of the syllabus are given below:

1. *Computer Basics and Applications (Unit-1) (Course no. SHGEO/305/SEC-1P)*
2. *Remote Sensing (Course no. 502/C-12P/Unit-1.2&1.3)*
3. *Remote Sensing (Course no. 504/SEC-3)*

Thanking you



Yours sincerely

(Dr. Swapna Ghorai)

Principal,

Ramananda College

Principal  
Ramananda College  
Bishnupur, Bankura



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Mobile:9434509415

Email: principal@ramanandacollege.org

Website: www.ramanandacollege.org

Date:24-09-2022

To,  
Sourav Tapadar  
Raipur, Bankura

Respected Sir,

I am glad to invite you to take few classes in Business Mathematics (Course Code-BCOMH-102C-2, Course ID 11212) for the UG 1<sup>st</sup> Semester students of the Department of Commerce of Ramananda College on purely temporary basis.

It will be highly appreciated if you kindly accept the offer letter for the benefit of our students.

Thanking you

Yours sincerely

  
(Dr. Swapna Ghosai)

Principal, Ramananda College

Principal  
Ramananda College  
Bishnupur, Bankura





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Tel: (03244)2520

Tele Fax: (03244) 2544

Mobile: 94345094

Email: principal@ramanandacollege.c

Website: www.ramanandacollege.c

Date:22-03-2023

To,  
Mr Sourav Tapadar  
Vill-chaka, PO- Lurka  
Ps- Raipur  
Dist- Bankura  
Pin- 721504

Respected Sir,

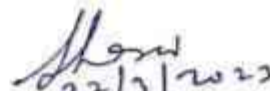
I am glad to invite you to take classes( temporary based) of Discreet Structure (code-SH/CSC/202/C-4) for students of the Department of Computer Science of Ramananda College.

It will be highly appreciated if you kindly accept the offer letter for the benefit of our students. Details of the syllabus are given below:

Thanking you

Yours sincerely

Discreet Structure (code-SH/CSC/202/C-4)

  
22/3/2023  
(Dr. Syanna) Principal  
Ramananda College  
Bishnupur, Bankura







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Mobile No. : +916297976619

E-Mail : principal@ramanandacollege.org

Website: www.ramanandacollege.org

Ref. No -

**Date – 30.11.2022**

Dr. Sandip Ain  
Professor  
Department of English  
Bankura University  
Main Campus, Bankura University  
P.O.: Purandarpur, Dist.: Bankura  
PIN: 722155

## LETTER OF ACKNOWLEDGEMENT

Dear Professor Ain,

I would like to thank you for delivering a special lecture with the title, "Literary Theory and Antonio Gramsci's Notion of the Formation of Intellectuals", to the students and alumni of the Department of English, Ramananda College, Bishnupur (Bankura), on Thursday, 22 September 2022. Your talk was greatly appreciated by everyone present. I look forward to your continued association with our college.

Thanking you,

  
(Dr. Swapna Ghorai)

Principal  
Ramananda College  
Bishnupur (Bankura)  
PIN – 722122

[www.ramanandacollege.org](http://www.ramanandacollege.org)

Principal  
Ramananda College  
Bishnupur, Bankura





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E-Mail: principal@ramanandacollege.org

Website: www.ramanandacollege.org

Ref. No -

Date – 30.11.2022

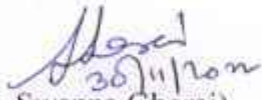
Dr. Ayan Mondal  
Assistant Professor  
Department of English  
Bankura Christian College  
College Road, Bankura (Bankura)  
PIN: 722101

## LETTER OF ACKNOWLEDGEMENT

Dear Dr. Mondal,

I would like to thank you for delivering a special lecture with the title, "Recontextualizing the 'American Dream': The Foundational Myths of America", to the students and alumni of the Department of English, Ramananda College, Bishnupur (Bankura), on Thursday, 22 September 2022. Your talk was greatly appreciated by everyone present. I look forward to your continued association with our college.

Thanking you,

  
(Dr. Swapna Ghorai)

Principal  
Ramananda College  
Bishnupur (Bankura)  
PIN – 722122

[www.ramanandacollege.org](http://www.ramanandacollege.org)

Principal  
Ramananda College  
Bishnupur, Bankura





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e-mail: principal@ramanandacollege.org  
Website: www.ramanandacollege.org

Ref. No -

Date – 30.11.2022

Dr. Somdatta Bhattacharya  
Assistant Professor of English  
Department of Humanities and Social Sciences  
Indian Institute of Technology, Kharagpur  
Ardeshir Dalal Avenue, IIT Kharagpur  
Kharagpur, West Bengal  
PIN: 721302

## LETTER OF ACKNOWLEDGEMENT

Dear Dr. Bhattacharya,

I would like to thank you for delivering a special lecture with the title, “An Unsuitable Job for a Woman? An Overview of Women’s Detective Fiction/Female Investigators”, to the students and alumni of the Department of English, Ramananda College, Bishnupur (Bankura), on Thursday, 22 September 2022. Your talk was greatly appreciated by everyone present. I look forward to your continued association with our college.

Thanking you,

  
(Dr. Swapna Ghorai)

Principal  
Ramananda College  
Bishnupur (Bankura)  
PIN – 722122

[www.ramanandacollege.org](http://www.ramanandacollege.org)

Principal  
Ramananda College  
Bishnupur, Bankura





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Pin - 722122, West Bengal

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Website: www.ramanandacollege.org

**Estd.: 1945**

UGC Recognized & State Government Aided Constituent College

Under the Bankura University (dt.-01.01.2017)

(Re-Accredited by NAAC 3<sup>rd</sup> Cycle at B<sup>++</sup> Level)

Ref. No.....

Date. 27.04.2023

From : Principal  
Secretary, G.B.

Dr. Ipsita Sengupta  
Associate Professor and Head  
Department of English  
Bankura University  
Main Campus, Bankura University  
P.O.: Purandarpur, Dist.: Bankura  
PIN: 722155

## LETTER OF ACKNOWLEDGEMENT

Dear Dr. Sengupta,

I would like to thank you for delivering a special lecture with the title, "Reading U. R. Ananthamurthy's *Samskara* as a Translational Text", to the students and alumni of the Department of English, Ramananda College, Bishnupur (Bankura), on Thursday, 27 April 2023. Your talk was greatly appreciated by everyone present. I look forward to your continued association with our college.

Thanking you,

  
(Dr. Swapna Ghorai)

Principal  
Ramananda College  
Bishnupur (Bankura)  
PIN - 722122



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**Principal**  
**Ramananda College**  
**Bishnupur, Bankura**

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**Estd.:1945**

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UGC Recognized & State Government Aided Constituent College

Under the Bankura University (dt.-01.01.2017)

(Re-Accredited by NAAC 3<sup>rd</sup> Cycle at B<sup>++</sup> Level)

Ref. No.....

Date. 27.04.2023

From: Principal  
Secretary, G.B.

Dr. Narugopal Mukherjee  
Reader  
Department of English  
Bankura Christian College  
College Road, Bankura (Bankura)  
PIN: 722101

## LETTER OF ACKNOWLEDGEMENT

Dear Dr. Mukherjee,

I would like to thank you for delivering a special lecture with the title, "Is the Alienation Effect Only a Phenomenon of the Epic Theatre? A Study of Select Classics of Different Times", to the students and alumni of the Department of English, Ramananda College, Bishnupur (Bankura), on Thursday, 27 April 2023. Your talk was greatly appreciated by everyone present. I look forward to your continued association with our college.

Thanking you,

  
27/08/2023  
(Dr. Swapna Ghorai)

Principal  
Ramananda College  
Bishnupur (Bankura)  
PIN - 722122



[www.ramanandacollege.org](http://www.ramanandacollege.org)

Principal  
Ramananda College  
Bishnupur, Bankura