



Ref. No.

Date

Best Practice 1

TITLE: Green Initiatives towards Protection of Nature and Natural Resources

OBJECTIVES:

- Sensitization, Protection and conservation of Environment and bio-resources
- Empowerment of wildlife research and conservation of rural wildlife

CONTEXT:

Due its rural background and location at the confluence of three rivers & surrounding area have numerous biodiversity that are threatened due to anthropogenic pressure.

THE PRACTICE:

- kitchen Garden and Herbal Garden created
- One-Village adopted (BINDU); plantation and cleaning work is done involving local residents.
- Biodiversity Register.
- Maintenance of natural waterbody-gardens

EVIDENCE OF SUCCESS:

- Recognition Forest Department-NGOs.
- Research publications
- Research + Job opportunities .
- Biodiverse green-clean campus.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

- Lack of awareness among local people

Best Practice 2

TITLE: Guide Book Writing and Mentorship



Ref. No.

Date

OBJECTIVES: To enrich students about the details of courses and OBE practice

CONTEXT: To make students aware about their correct academic path

PRACTICE:

- i) At the start of the semester students are allotted special session for clarification of subject combinations, choice of electives, selection of project work
- ii) Regular mentoring to counsel students on issues related to academia as well as on personal ground
- iii) Showing career opportunities

EVIDENCE OF SUCCESS:

- i) Students received Gold Medals in Univ-Exam
- ii) Increasing enrolment in value-added courses/certificate courses
- iii) Easy identification and action taking about the learning levels of students

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

Interests of the students are no similar across streams



Ref. No.

Date
20/08/2023

Besides the regular curricular practice, the institution has taken various steps for the betterment of the campus, local community and all stakeholders from the surrounding locality. Among those initiatives we could identify the Green Initiatives namely Environment and Conservation Related activities towards sustainable future as one of our Best Practices during last five years.

(DR. SABYASACHI SEN, Principal)

Principal
Shyampur Siddheswari Mahavidyalaya
Ajodhya, Howrah.

BEST PRACTICES (ACADEMIC SESSION: 2022-2023)

BEST PRACTICE-I

TITLE OF THE PRACTICE: Green Initiatives towards Protection of Nature and Natural Resources

OBJECTIVES:

1. Protection and conservation of Environment and its bio-resources | in and around the college campus.
2. Sensitization of students and local common people about importance of biodiversity and need of its protection.
3. Maintenance of a clean and green environment for betterment of the students' health and mental wellbeing.
4. Empowerment of wildlife research and conservation of rural wildlife by encouraging students for making career in wildlife research.

CONTEXT:



Geographical position of the institute indicates presence of rich biodiversity

The institution is situated in the floodplain of the Rupnarayan and Damodar river, hence the area harbours a wide range of biodiversity (both floral and faunal) including several threatened animals such as Fishing Cat, Jungle Cat, Golden Jackal, Gangetic Dolphin, Monitor Lizards, Softshell turtles, Indian Skimmer, Osprey, numerous numbers of wetland birds, wetland vegetations and fishes. Due to havok anthropogenic pressure the landscape is facing severe threat that need to be minimized to conserve biodiversity.

THE PRACTICE (Annexure – I):

This institution has taken a set of steps to sensitize the students and other stakeholders about the importance of locational advantage of the college and our role to maintain a healthy biodiversity around.

1. Regular **awareness camps and exhibitions** within campus and in local fairs, social gatherings, schools and clubs.
2. **Documentation** of biodiversity and maintenance of a **Biodiversity Register** inside and around the campus.
3. Small **research projects** highlighting the rich biodiversity.
4. Quick action **helpline** and help-team for snakebite and animal rescue.
5. Maintenance of natural **waterbody** and **garden**.
6. Rainwater harvesting, reduced use of ground water.
7. Use of Solar Energy, Energy efficient and need based lighting system.
8. Regular internal and external Environmental Auditing and management of healthy environment.
9. Regular monitoring of the migratory waterfowls in Rupnarayan basin.
10. **Observation of Environment related days** and events year-round involving local schools and common people.
11. **Training Workshops** for students in Wildlife Research, Wildlife Tourism and Citizen Science initiatives.
12. Training on more sustainable lifestyle for both students and teachers.

EVIDENCE OF SUCCESS (Annexure - II):

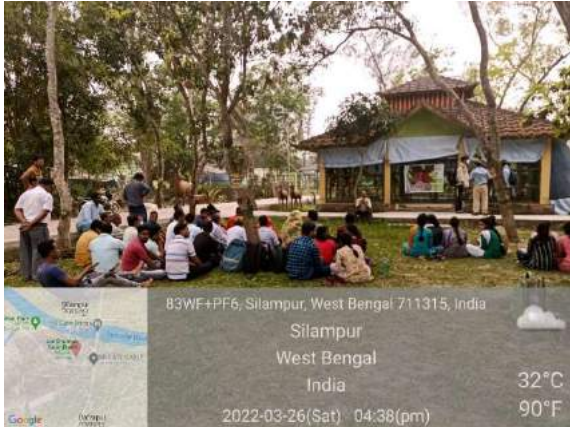
1. Recognition from the Forest Department and local NGOs.
2. Research publications by students working on local biodiversity documentation.
3. Research career and Job opportunities for students in Wildlife Sector.
4. Better response from local people about wildlife rescue and reduced killing of snakes, fishings cats and other wildlife.
5. Eco-Club of the institution has received the data publisher status/approval from GBIF for its contribution towards Citizen Science.
6. Beautiful College Campus harboring various natural resources and rich biodiversity.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

1. Lack of awareness about the need of conservation of natyral resources among local people.
2. Lack of infrastructure for modern day environmental research.
3. Poor financial background of local stakeholders that refrain them from choosing more sustainable options.
4. We are planning to develop proper plastic and waste paper recycling unit for the college and surrounding area.

Annexure – I

Awareness camps and exhibitions:



Community Awareness Camps for Fishing Cat Conservation (April, 2022)



Biodiversity Awareness Camp at Shyampur Krishimela (Jan, 2020) and SSM Exhibition (2018)



Regular Snake Bite Awareness Camp at Local Schools (2018-2023)



Procession for Fishing Cat Conservation & Snake Bite Management Awareness Camp (2020)

Documentation of biodiversity: Biodiversity Register



Flora and Faunal Pages

Birds:

Butterflies:

Biodiversity Register of SSMahavidyalaya

File Edit View Insert Format Data Tools Extensions Help

100% 123 Default... 10 B I A

A1 fx SI No

SI No	Common Name	Scientific Name	Bengali Name	Campus	Surrounding
1	Mistletoe Plant	<i>Dendrophthoe sp.</i>	বড় মাদা		1
2	Small-leaved Mahagoni	<i>Swietenia mahagoni</i>	ছোট পাতা মেহগনি	10	1
3	Big-leaf Mahagoni	<i>Swietenia macrophylla</i>	বড় পাতা মেহগনি	7	1
4	Earleaf Acacia	<i>Acacia auriculiformis</i>	সোনালুড়ি/ আকাশ মণি	9	1
5	Indian gooseberry	<i>Phyllanthus emblica</i>	আমলকী	7	0
6	Common Guava	<i>Psidium guajava</i>	পেয়ারা	5	1
7	Butterfly Pea flower	<i>Clitoria ternatea</i>	আন্দরাজিকা		1
8	Neem	<i>Azadirachta indica</i>	নীম	2	1
9	Jam	<i>Acacia acuminata</i>	জাম	14	1
10	Palmyra-plum	<i>Borassus flabellifer</i>	তাল	2	1
11	Bullet wood	<i>Minusops elengi</i>	বকুল	3	1
12	Blackboard Tree	<i>Alistonia scholaris</i>	ছাতিম	18	1
13	Indian Tullip Tree	<i>Thespesia populnea</i>	হাবলি/ পরশ পিপুল	9	1
14	Betel Nut	<i>Areca catechu</i>	সুপারি	1	1
15	Coconut tree	<i>Cocos nucifera</i>	নারিকেল	5	1
16	Castia	<i>Casia sp.</i>	কালকাসুন্দা		1
17	Banyan tree	<i>Ficus benghalensis</i>	বট	1	1
18	Peepul tree	<i>Ficus religiosa</i>	অশ্বথ	2	
19	Bamboo	<i>Bambusa sp.</i>	বাঁশ	2	1
20	Madagascar plum	<i>Ficourtia indica</i>	Boroi	6	0

Plants Birds Fish Amphibia Butterfly Reptilia Mammalia Odonata Spider

Research Projects



Research Field Work at Rupnarayan Basin for Migratory Birds

Research Collaborations:



Students with The Fishing Cat Project



Students at Nature Mates Nature Club Lab

Quick Action Helpline and Animal Rescue:



Birds rescued from distress (100+ since 2017)



Snake rescue (2018)



Snake Rescued from Traps and Households and released in wild (2018-2022)



Indian Flapshell Turtle rescued (20+ since 2017)

Maintenance of natural waterbody and garden



Two water-bodies maintained within the campus



Landscaping with trees



Maintenance of Garden



Maintenance of Herbal Garden

Observation of Environment related days



Observation of Earth Day 2022



Observation of Aquatic Animal Day 2023



Observation of World Wildlife Day 2022



World Migratory Bird Day 2023



World Environment Day 2023



Swachh Bharat Initiative 2022



World Bi-cycle Day 2023

Training Workshops






Certificate course on Wildlife Tourism



Field Workshop on Biodiversity

Solar Energy



West Bengal State Electricity Distribution Company Ltd.

(A Government of West Bengal Enterprise)
BILL (For Quarterly billing consumers)

AJODHYA CUSTOMER CARE CENTER, PHONE No -
CALL CENTER PHONE No - 19121 (TOLL FREE), TAN: CALW050536

<p>SEC, SHAMPUR SIDDHESWARI MAHAVIDYALAYA PO-AJODHYA DM GHAT I, SHYAMPUR II, HOWRAH Pin - Consumer Id : 133012903 Tariff Class : A(CM-R) Installation No : B963805 Latitude : N/A Longitude : N/A</p>	<p>Invoice No. 454011685466 Prev. Reading Date 06.03.2023 Present Reading Date 10.06.2023 Billing Date 13.06.2023 Next Reading Date: 16.08.2023-20.08.2023 Connected Load 19 KVA Solar PV Capacity Meter Reading unit 4GA030MR PAN of consumer(s)</p>
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Meter No	Time	Previous Reading	Present Reading	MF	Unit consumed	Max Demand (KVA)
STE00234	N	9181.00	19028.00	1.00	9847.00	
STE00236	E	4276.00	6327.00	1.00	2051.00	

Bill Month	JUN. 2023	JUL. 2023	AUG. 2023
Amount due after due date (Rs.)	24101.00	24102.00	24102.00
Due dates to avail Monthly Rebates	23.06.2023	24.07.2023	22.08.2023
Monthly Rebates (Rs.)	-240.51	-240.51	-240.51
Amount due within due dates (Rs.)	23860.00	23861.00	23861.00
Special Rebates (Rs.)	-779.60		
Total Amount Payable at a time within 1st Due date* (Rs.)			70,602.00
Amount payable at a time through e-Payment within 1st Due date			70,096.00

Breakup of Charges		Total
Category		70443.52
Energy Charge (Rs.)		1710.00
Fixed/Demand Charge (Rs.)		150.00
Meter Rent (Rs.)		72393.82
Gross Amount (Rs.)		-0.82
Adjustments**		

Payment may be made using RTGS/NEFT in your exclusive a/c no:
WBI1330129038963805 with IFSC code ICIC0000104
As per order of WBERC dated 28.07.2022 & Subsidy from West Bengal Govt.

Outstanding Rs. 0.00

Last Payment Details: Amount (Rs.) 20699.00 Payment Date: 17.03.2023
Electricity duty is exempted for this consumer from period 21.02.2018
G.I. 12 9999
Solar Details: Import Export+Carried forward Billable Carry Forward
Units 9847.00 2051.00 7796.00 0.00
Interest Rs. 2203.29 TDS Rs. 0 & Net Int. Rs. 2203.29 on Security Deposit
as on 31.03.2023
Security Deposit: Rs. 38924.76

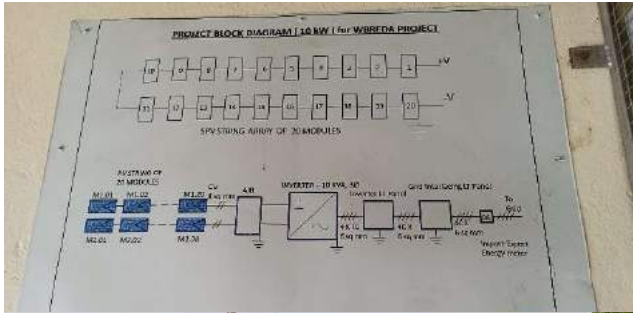
For outstanding amount please see instruction overleaf (বকেলা সংক্রান্ত নির্দেশিকা পিছনের পাতায় দেখুন)

HOURS OF PAYMENT: MONDAY TO FRIDAY: 9:30 A.M. TO 3:30 P.M. & SATURDAY: 9:30 A.M. TO 12:30 P.M. CHEQUES WILL NOT BE ACCEPTED AFTER 10:00 P.M.

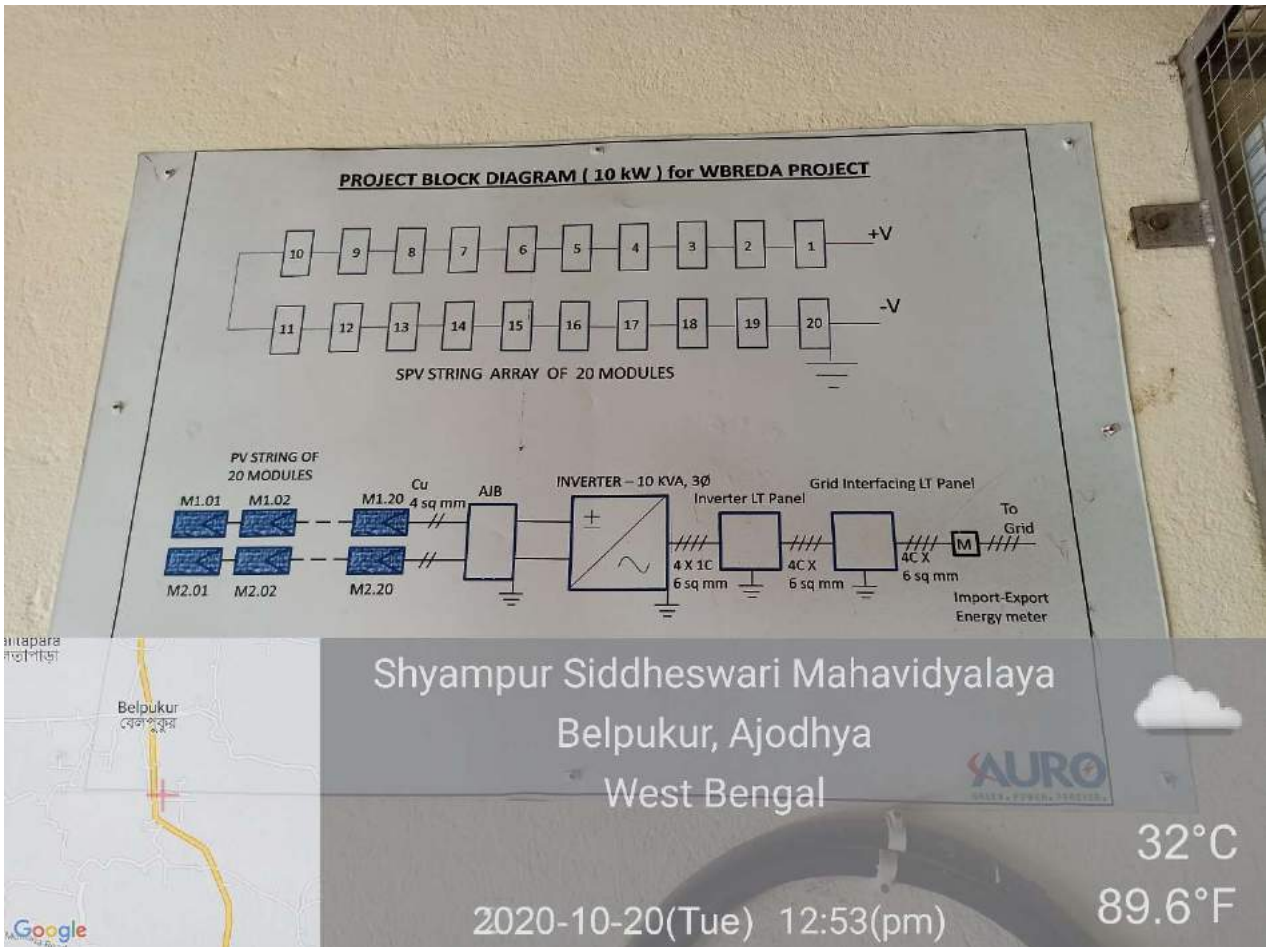
AVAIL ADDITIONAL REBATE @ SPIKWH BY PAYING WITHIN 1st DUE DATE AT A TIME. *AVAIL 1% ADDITIONAL REBATE AS PER TARIFF ORDER FOR E-PAYMENT WITHIN DUE DATE
PLEASE REGISTER YOUR MOBILE NO. AND E-MAIL ID AT WBSEDCL PORTAL OR INFORM TO YOUR CCC TO AVAIL DIFFERENT VALUE ADDED SERVICES

বিলের হারি
শান্তিবাসী অপসারণ

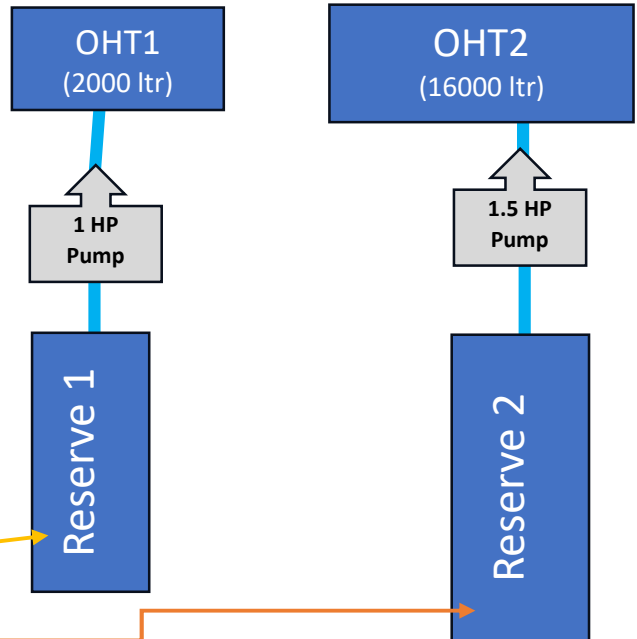
স্বপ্ন সংগ্রহের বিঃ দ্বারা উন্নত পরিষেবা গ্রাহকের Call Centre এর মাধ্যমে ১০-১০-১৯০-১১১ নাম্বারের অধীনে পরিচালনা করা হবে। (WBI) এর মাধ্যমে মানবিক পরিষেবা গ্রাহকের বিলিং কার্ডে যাচাই করে নিন। এবং নতুন কাস্টমার রিগিঃ গ্রাহকের Customer ID কর্তৃক প্রদেয় হবে।



Solar Power Grid of 20 kW



**Rain Water Harvesting:
Planning Outline:**



Reserver 1: **Dimension:** 85 ft x 250 ft x 6 ft
 Capacity: approx. 900000 US Gallon
Reserver 2: **Dimension:** 115 ft x 300 ft x 4 ft
 Capacity: approx. 1000000 US Gallon
 Annual Water Usage: **Approx. 4,000,000 Liters**



Rainwater reserve 2



Rainwater reserve 1



Overhead Rainwater Reserve 1



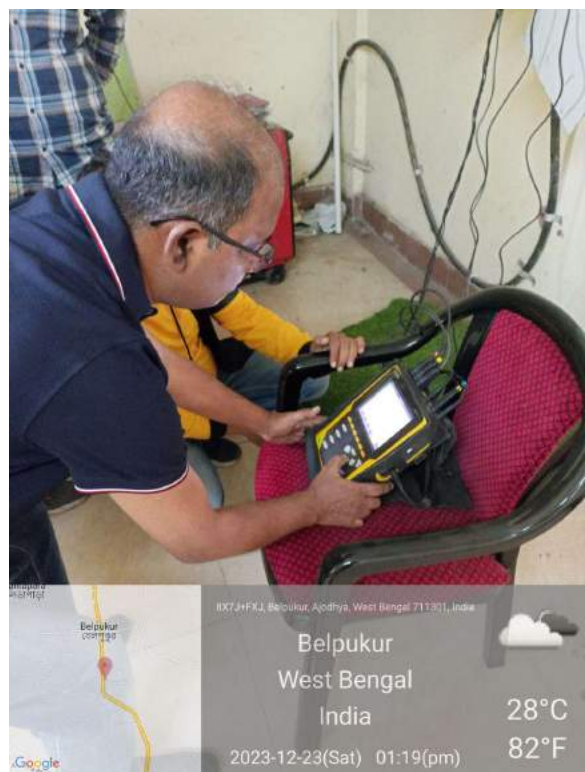
Pumping system from Rainwater reserve to OHR

Overhead Rainwater Reserve 2



Rainwater outlet from rooftop to reserve

Regular Energy Audit for the Institution



Certificate for Energy Audit



NU ENERGY INDIA
**Energy Management &
Power Systems Consultants**

UDYAM REGISTERED MSME
Regn. No.: UDYAM-WB-10-0012147

Regd. Office:
47/4 Shyamnagar Road,
Mekhala Apartment
Kolkata - 700 055
Ph.-(+91) 8777022370
Mobile- (0) 9432121623/7595872766
Email: nuenergyindia2005@gmail.com
GSTIN: 19AAFFN2761C2ZE

Date: 21.01.2024

TO WHOM MAY IT CONCERN

This is to certify that Energy Audit has completed for the Financial Year 2022-23 successfully at all building premises of Shyampur Siddheswari Mahavidyalaya, located at Ajodhya, Shyampur, Howrah, West Bengal-711312, India. Entire study & analysis was carried out on & from 23.12.2023 to 20.01.2024.

Management of Shyampur Siddheswari Mahavidyalaya extended their hands to help audit team to provide all required data & also helped to conduct trial & testing for capturing actual real time data.

Anjan Majumdar.

ANJAN MAJUMDAR
Certified & Accredited Energy Auditor
Bureau of Energy Efficiency
Ministry of Power, Govt. of India
Reg. No.- CEA 0167/AEA-0193

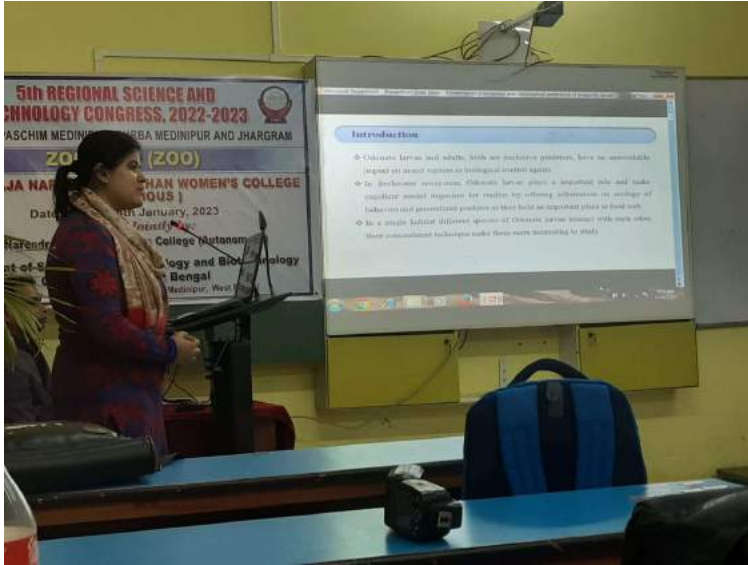
Save Energy for Sustainable Business Mission and Better Tomorrow

(DR. SABYASACHI SEN, Principal)

Principal
Shyampur Siddheswari Mahavidyalaya
Ajodhya, Howrah.

Annexure- II

Evidence of Success




Oral presentation at WBSSTC, 2022




Climate Clock provided to Eco-Club



Felicitations of Eco-Club Members by Local People for Environmental Services


PROSENJIT DAWN
Asst. Professor
Dept. of Zoology
S. S. Mahavidyalaya



(DR. SABYASACHI SEN, Principal)
Principal
Shyampur Siddheswari Mahavidyalaya
Ajothhya, Howrah.

Best Practice2

TITLE: Mentoring and Guidance for students

OBJECTIVES:

- To enrich students about the details of courses and OBE practice.
- Better understanding of students

CONTEXT: To make students aware about their correct academic path

PRACTICE: (Annexure I)

- At the start of the semester students are allotted special session for clarification of subject combinations, choice of electives, selection of project work
- Regular mentoring to counsel students on issues related to academia as well as on personal ground
- Showing career opportunities

EVIDENCE OF SUCCESS: (Annexure II)

- Students received Gold Medals in University Examinations.
- Reduction in Early age marriage and increased participation in higher education.
- Increasing enrolment in value-added courses/certificate courses.
- Easy identification and action taking about the learning levels of students.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED:

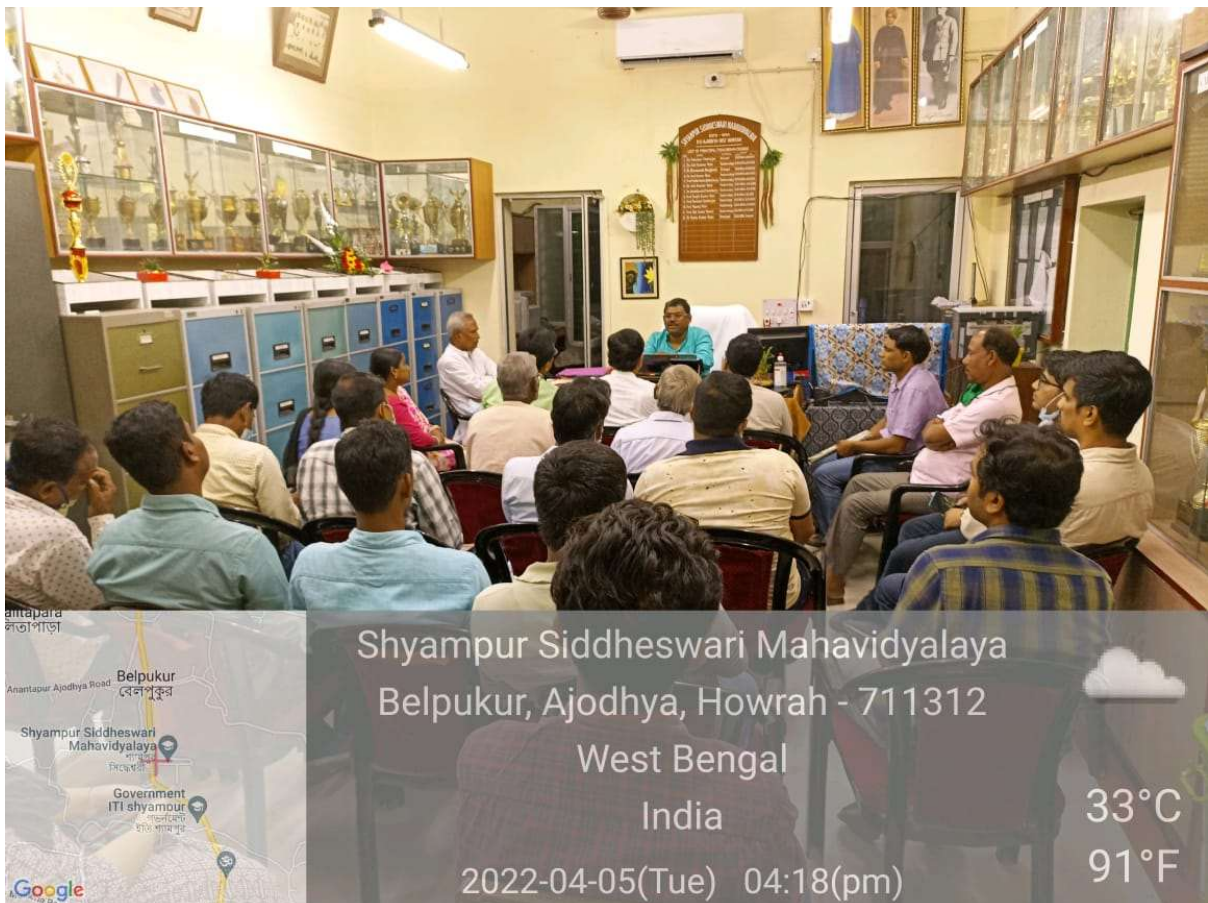
Interests of the students are not similar across streams

Annexure I

Mentorship Class



Meeting with Stakeholders for Planning of Mentoring Students after Covid Pandemic Lockdown



Example of Register for Mentoring Class in 2018-2019

→ Mentee (Name of Students)
Session 2018-2019.
For SEM - I
Team - 'A'

Mentor - Dr. Dhruva Chandra Dhali

Mentee -

- ① Sridipto Manha.
- ② Kahini Samanta
- ③ Falguni Deshmukh
- ④ Shrabanti Santra
- ⑤ Abul Basar Sumon.
- ⑥ Ankana Das.

Team - B

Mentor - Prof. Prosenjit Dawn

Mentee -

- ① Sauchari Das
- ③ Soumita Pal
- ③ Monisha Ghunya
- ④ Sanghamitra Das
- ⑤ Sneha Shee.
- ⑥ Pritee Mondal

Team - B

Mentor - Dr. Madhumita Mondal

Mentee -

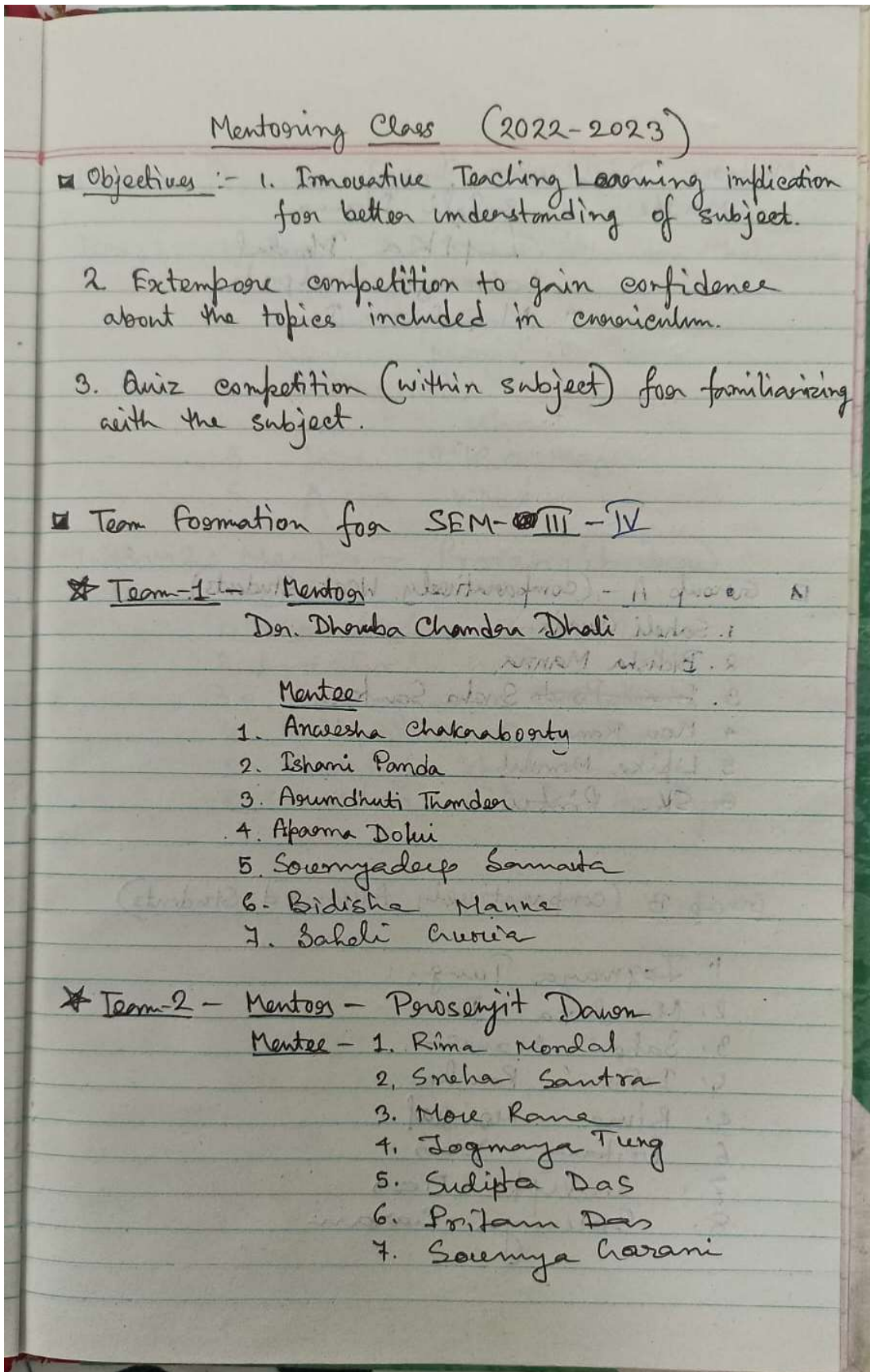
- ① Sunanda Jana
- ② Shilpa Guria
- ③ Subarna Bora
- ④ Shaboni Mondal
- ⑤ Anwesha Jana

Example of Register for Mentoring Class in 2019-2020

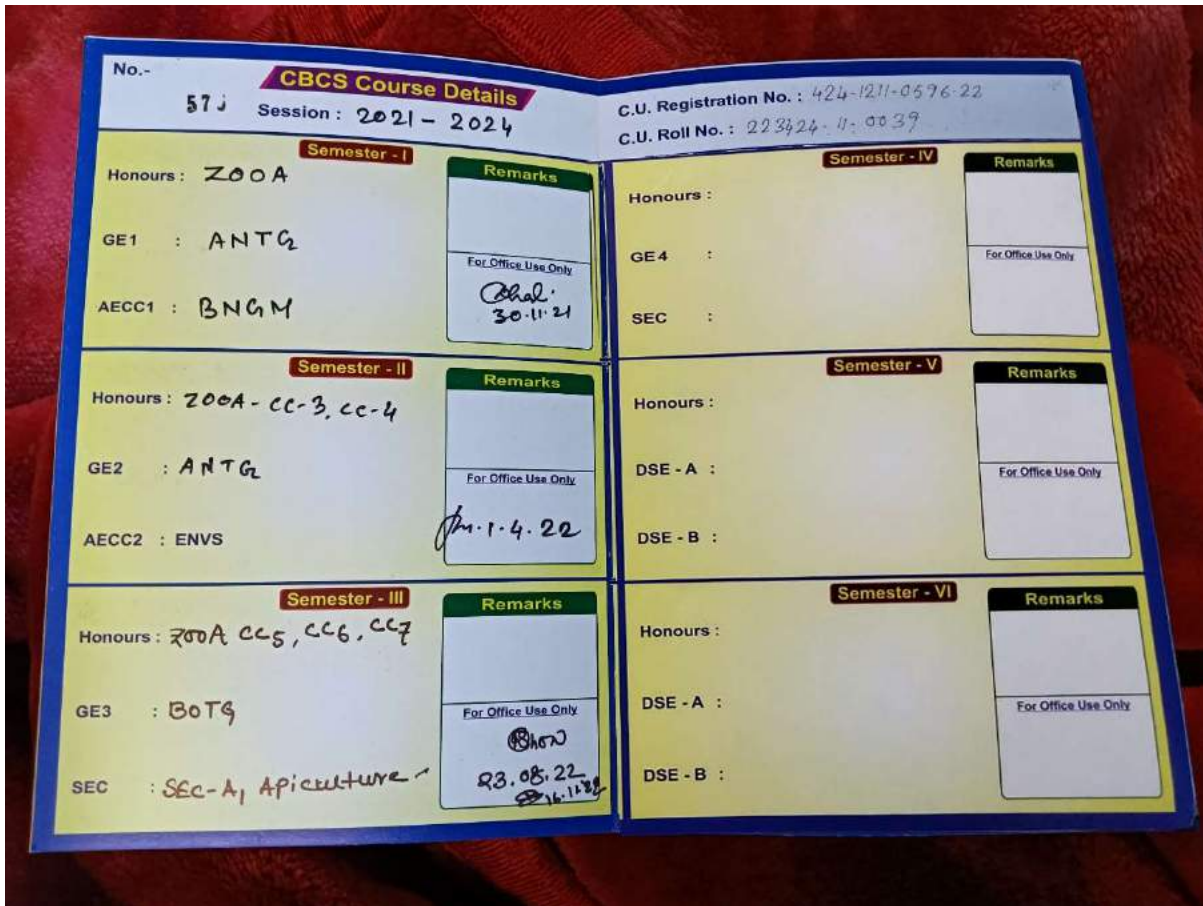
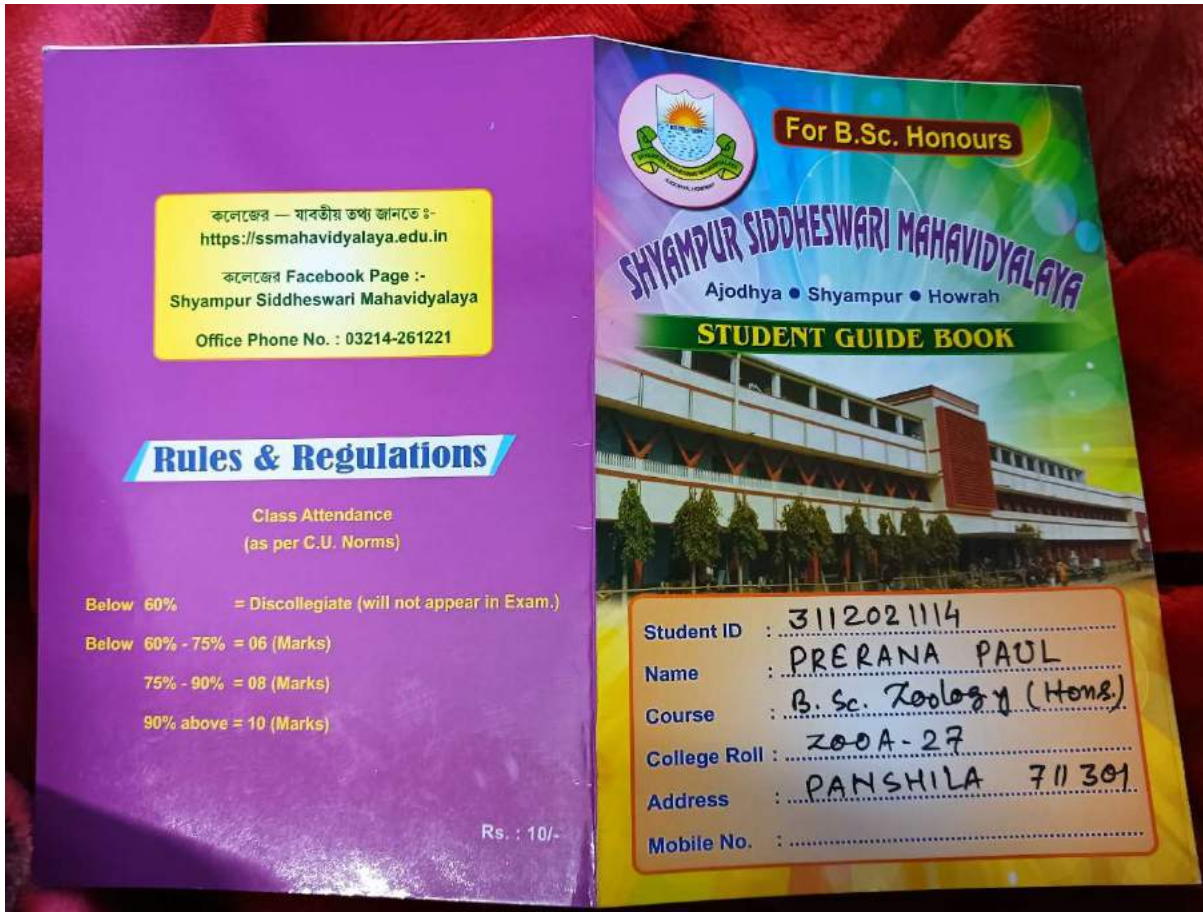
Mentoring classes under "Students Induction Programme".		Session - 2019-2020	
Sem-I :			
	Mentor	Mentee	
Team-A	① Dr. D.C. Dhal.	① Nurtaj Khatun ② Irani Khan ③ Ritu Mainan ④ Shilpa Das ⑤ Kamalika Maji ⑥ Anukita Pramanik ⑦ Apindam Dey ⑧ Rangham Chosh.	Se Te Dr
	② Prof. P. Daudu	① Srija Poadham ② Maitree Polley ③ Tania Khaddar ④ Anindita Jana ⑤ Suranda Das ⑥ Pritwisha Majee ⑦ Laboni Chautia	Tea Po Tea
Team-B	③ Dr. M. Das	① Keya Maji ② Preeti Mondal ③ SK. Anaya Khatun ④ Monalisa Samanta ⑤ Tapaya Kuila	Dr. Tea
C-Team	④ Dr. M. Mandal	① Ayati Chakraborti ② Trisha Chatterjee ③ Biboran Das ④ Anushree Chosh ⑤ Sujan Nasrin	Dr.
D			

Dhal
09.07.2019

Example of Register for Mentoring Class in 2022-2023



Student Guide Book for Regular Mentoring:



Annexure II

Case Study 1:

Name of the Student: **Tamasi Santra**

Academic Session: **2017-2020**

Background: Tamasi was admitted to Zoology Honours in 2018 and was a bright student. She lost her father in childhood. Due to weak financial support from the family, she was completely dependent on scholarships from different sources and subsidy from the college.

Challenge:

After completion of the first year in college Tamasi was forced for getting married from her family and her education was threatened. She was mentally disturbed and lost her confidence to continue her higher studies.

Action Taken:

- Tamasi was already registered under mentorship of Prof. Prosenjit Dawn, Assistant Professor, Department of Zoology. She contacted her mentor for help.
- Prof. Dawn immediately arranged personal level counselling classes for her and contacted her family.
- Multiple personal level psychological counselling was organized for Tamasi to encourage her for continuing the course and opt for higher studies instead of giving up.

Evidence of Success:

- After continuous interaction with her family Prof. Prosenjit Dawn was successful to prevent her marriage.
- Tamasi Santra continued her graduation in Zoology honours, stood first from the college and successfully got admitted in Masters degree in Maulana Azad College under University of Calcutta.
- The mentoring and support continued till the master degree as Prof. Prosenjit Dawn acted as her local guardian during admission in the Maulana Azad College and Hostel.

https://cu.onlineadmission.org/GHC/viewhostelProfile_Girl.asp

MAULANA AZAD COLLEGE WOMENS' HOSTEL

19, HAJI MD. MOHSIN SQUARE, KOLKATA-700016

APPLICATION FORM FOR ADMISSION

Application No : 12061

DISTRICT : Howrah

AGGREGATE (best of four subjects) : 315

Mention best four subjects and marks

1. BENGALI A (85)

2. ENGLISH
LANGUAGE
AND
LITERATURE
(80)

3. BIOLOGICAL SCIENCES (80)

4.
CHEMISTRY
(70)



Tamasi Santra

1. (a) Name of the applicant TAMASI SANTRA

(b) Name of Father/Mother LATE ASHUTOSH SANTRA / JHUMA
SANTRA

(c) Name of Local Guardian PROSENJIT DAWN

(d) Address of Local Guardian 33,NATIONAL
PLACE,BAKSARA,HOWRAH,711110

2. Name of College to which you are admitted
MAULANA AZAD COLLEGE

3. (a) Class/Semester Semester 3

(b) Subject ZOOLOGY (PG)

Z004/22/0176

UNIVERSITY OF CALCUTTA

22/057468/176



M.Sc. 4th SEMESTER EXAMINATION, 2022

The following is the statement of Marks obtained by **TAMASI SANTRA**

Roll No. : **146/ZOO/201185** Registration No.: **424-1221-1393-16** at the aforesaid examination, 2022
(Held in JUNE 2022) in **ZOOLOGY**.

Course	Credit	Details of Courses	Theoretical		Practical		Course		Grade Point	Letter Grade
			Full Marks	Marks Obtained	Full Marks	Marks Obtained	Full Marks	Marks Obtained		
ZCT429	4	Taxonomy and Biostatistics	50	32			50	32	6.40	B+
ZCT430	4	Animal Behavior and Evolutionary Biology	50	23			50	23	4.60	C
ZCP431	4	Laboratory Course for Core Subjects			50	41	50	41	8.20	A+
ZCP432	4	Comprehensive Viva Voce and Field Study & Report			50	33	50	33	6.60	B+
ZEP433	4	Lab Intership and Dissertation & Seminar on Dissertation/Review Work			50	41	50	41	8.20	A+

Grade Point, Final Grade and Class Table					Semester Wise Statement					
% of Marks	Grade Point	CGPA	Letter Grade	Class	Semester	Full Marks	Credit	Total	SGPA	
90 - 100	9.00 - 10.00	9.000 - 10.000	O (Outstanding)	Ist Class	1st	250	20	142	5.680	
80 - 89	8.00 - 8.99	8.000 - 8.999	A+ (Excellent)	Ist Class	2nd	250	20	181	7.240	
70 - 79	7.00 - 7.99	7.000 - 7.999	A (Very Good)	Ist Class	3rd	250	20	190	7.600	
60 - 69	6.00 - 6.99	6.000 - 6.999	B+ (Good)	Ist Class	4th	250	20	170	6.800	
55 - 59	5.50 - 5.99	5.500 - 5.999	B (Above Average)	IInd Class	Cumulative Statement					
50 - 54	5.00 - 5.49	5.000 - 5.499	C+ (Average)	IInd Class						
41 - 49	4.10 - 4.99	4.000 - 4.999	C (Below Average)	IInd Class	Full Marks	Credit	Grand Total	CGPA	Grade	Result *
40	4.00		P (Passed)		1000	80	683	6.830	B+	I
Below 40			F (Failed)							
Absent			AB							

Failed in _____ * I - First Class, II - Second Class.
Re-appeared in _____ XS - Supplementary; SNC - Previous semester(s) not clear;
F - Failed; GPW - Grade Point Withheld

Serial No. : 2021/ 0397875

29062022

[Signature]
Controller of Examinations (Acting)