



Annual Report 2022-23

SHYAMPUR SIDDHESWARI MAHAVIDYALAYA
Department of Zoology



Content:

Topic	Page Number
1. Message from the Head of the Department	3
2. Faculty Members	3
3. Delegation of Responsibility (Institutional and Departmental)	4
4. Certificate or Value-Added Courses Conducted	6
5. The Departmental Committee	7
6. New Academic Programmes initiated	7
7. Interdisciplinary Programmes started	8
8. Achievement of Faculty Members	9
9. Details of seminars/Workshops/Conferences Organized by the Departments Seminars/workshops conducted	9
10. Initiatives towards Faculty Development Programme	9
11. On-going Research projects of the department, Research projects applied by the department	10
12. Collaborative research Programme	10
13. Citation index of faculty members and impact factor: 2009, 2010, 2011, 2012, 2013	11
14. Participation in National/International seminars, symposiums, conferences, workshops etc. (2022-23)	11
15. Community Services/ Extension Activities	16
16. Increase in the infrastructural facilities	23
17. Computer and Internet access and training for teachers, students and staffs	23
18. Professional Body Membership of faculty members:	23
19. Improvement in existing Lab resources and Lab infrastructure	23
20. Students' performance analysis in the University Examination (2022-23 ODD-EVEN semester):	24
21. The Counseling Activities of the Guidance and Counseling Unit & Mentorship program	29
22. Report of Feedback and Action Taken	29
23. Development programme for non-teaching staff	31
24. Best Practices of the Department	31
25. Linkage developed with National/International Academic/Research bodies.	31
26. Distance Learning Programmes if any	31
27. Future Plan for the Modernization of Existing Laboratories	31
28. Budget for the financial year 2022-2023	32



Message from the Head of the Department:



It gives me immense pleasure to address you through this edition of our departmental newsletter. The Department of Zoology, nestled in the serene beauty of our rural college, serves as a gateway to understanding the marvels of life and biodiversity. Our students and faculty are deeply committed to blending academic excellence with a profound appreciation for nature's intricate design.

In this rapidly evolving scientific world, we focus not only on imparting knowledge but also on nurturing critical thinking, curiosity, and a passion for environmental conservation. Our rural setting offers a unique advantage, providing hands-on opportunities to study the diverse ecosystems around us.

I applaud the efforts of our team in maintaining a vibrant learning environment and encourage our students to explore, innovate, and make meaningful contributions to science and society. Together, let us strive to illuminate the path of discovery and knowledge holistically.

*Dr. Dhruva Chandra Dhali,
Head of Department, Zoology,
Shyampur Siddheswari Mahavidyalaya*



Faculty Members

Sl. No.	Name	Designation	Highest Qualification	Area of Interest	Date of Birth	Date of Joining
1	Dr. Dhruva Chandra Dhali *	Asst. Prof. and Head of Department	Ph.D (Science)	Arachnology: Araneae (Spiders)	05.05.1983	31.01.2017
2	Mr. Prosenjit Dawn *	Asst. Prof.	M.Sc. (Science)	Ecology, Entomology Wildlife Conservation, Animal Behavior	15.11.1988	09.01.2017
4	Dr. Mohua Das *	SACT-1	Ph.D (Science)	Fish and Fishery		

*Teachers serving this Institute for more than 5 years.

Delegation of Responsibility (Institutional and Departmental)

INSTITUTIONAL		
Sl. No.	Nature of Responsibility	Name of the teacher assigned with that job
1	Internal Quality Assurance Cell	Dr. Dhruva Chandra Dhali, Coordinator
2	Member of the Academic Council	Dr. Dhruva Chandra Dhali, Convenor
3	Research & Development Cell	Dr. Dhruva Chandra Dhali, Member Mr. Prosenjit Dawn, Member
4	Admission Subcommittee	Dr. Dhruva Chandra Dhali, Member
5	Routine Committee (Departmental Representative)	Dr. Dhruva Chandra Dhali (Science), Convenor
6	Journal Subcommittee	Dr. Dhruva Chandra Dhali, Convenor
7	Library Committee of the Institute	Dr. Mohua Das, Member
9	Members of the Placement Cell	Mr. Prosenjit Dawn, Member
10	Sports Committees	Mr. Prosenjit Dawn, Member Dr. Dhruva Chandra Dhali, Member
11	Environment Management and Eco Club	Mr. Prosenjit Dawn, Convenor Dr. Dhruva Chandra Dhali, Member Dr. Mohua Das, Member
12	Canteen Subcommittee	Dr. Dhruva Chandra Dhali, Member
13	Service Book	Mr. Prosenjit Dawn, Member
14	Social Welfare	Dr. Dhruva Chandra Dhali, Member
15	Excursion Subcommittee	Mr. Prosenjit Dawn, Convenor Dr. Dhruva Chandra Dhali, Member
16	Student's Health and Hygiene Subcommittee	Mr. Prosenjit Dawn, Member
17	Women Cell	Mr. Prosenjit Dawn, Member Dr. Mohua Das, Member



DEPARTMENTAL		
Sl. No.	Nature of Responsibility	Name of the teacher assigned with that job
1	Departmental In-Charge & Next responsible person	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, HoD • Mr. Prosenjit Dawn, Deputy HoD
2	Laboratory In-Charge & Next responsible person	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn • Mr. Asish Panja
3	Departmental Committee (DC) and related issues	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, HoD and Chairman (Convenor) • Mr. Prosenjit Dawn, Deputy HoD • Dr. Mohua Das, Member • Mr. Asish Panja, Member
4	Departmental PURCHASE Committee (procurement & up gradation of laboratory equipment's)	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, HoD and Convenor • Mr. Prosenjit Dawn, Deputy HoD • Dr. Mohua Das, Member • Mr. Asish Panja, Member
5	Examination matters	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, HoD and Convenor
6	Time table preparation for lecture and lab classes	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, Convenor (Science)
7	Research & Development	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, Convenor • Mr. Prosenjit Dawn, Member • Dr. Mohua Das, Member
8	Departmental Library, HoD nominee in the Central Library com.	<ul style="list-style-type: none"> • Dr. Mohua Das, Member
9	Departmental fund, finance.	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Dr. Mohua Das, Member
10	Departmental budget: data collection from various laboratories after consultation with teacher In-charge of the respective labs & stock maintenance	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, Convenor • Mr. Prosenjit Dawn, Member • Dr. Mohua Das, Member
11	Laboratory & Infrastructure Development	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Dr. Mohua Das, Member • Mr. Asish Panja, Member
12	Social service and related affairs	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Mr. Asish Panja, Member
13	Outreach initiative	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Mr. Asish Panja, Member
14	Preparation of the annual report	<ul style="list-style-type: none"> • Dr. Dhruva Chandra Dhali, Convenor • Mr. Prosenjit Dawn, Member • Dr. Mohua Das, Member
15	Design of new courses (Value added and Certificate)	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Dr. Mohua Das, Member
16	Placement & Training	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Dr. Mohua Das, Member
17	Connection with other Institutes	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member
18	Students' mentorship	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member • Dr. Mohua Das, Member
19	IIC activities, Patent, Startup	<ul style="list-style-type: none"> • Mr. Prosenjit Dawn, Convenor • Dr. Dhruva Chandra Dhali, Member



Certificate and Value-Added Courses:

1. Different Indian Folk Art Forms
2. Capacity Building for Wildlife Research and Wildlife Tourism
3. Importance of Plankton culture in Fishery

The Departmental Committee:

Formation & functionalities: The Departmental committee shall consist of – Head of the Department who shall be the Chairman and Convener. All whole timer teachers of the Departments. Visiting teachers shall be the invitee to the Committee. The Departmental Committee is concerned with following issues:

To organize and carry out teaching and research.

- (i) To identify the academic areas which need be initiated or strengthened and to recommend suitable measures in this respect.
- (ii) To recommend requirements in respect of teaching, research, technical and other posts for the Department.
- (iii) To recommend purchase of books, journal laboratory materials, equipment, furniture and such other materials as are necessary for the Department.
- (iv) To suggest proposals for inclusion in the annual budget.
- (v) To allocate funds placed at the disposal of the Department for the purpose of teaching and research.
- (vi) To maintain equipment and other articles purchased for or allotted to the Department.
- (vii) To ensure proper discipline in the Department.
- (viii) To recommend to the Academic Council names of persons with expert knowledge in the discipline for Selection Committee for teaching posts of the Department concerned.
- (ix) To form sub-committee as and when necessary.
- (x) To perform such other functions as are conducive to the academic and other developmental interests of the Department.
- (xi) To be responsible to the higher authority for due observance of Statutes, Regulations and Rules relating to the Faculty and the Department and for taking necessary action on the decisions of the higher authorities.
- (xii) To prepare annually a report on academic and other activities of the Department at the end of each academic session.
- (xiii) To submit monthly report on actions taken to the concerned Academic Council.

Date of Departmental Committee meeting held during 2022-23:

1. 4th July, 2022 at 2.30 pm
2. 5th September, 2022 at 2.30 pm
3. 20th December, 2022 at 2.30 pm
4. 17th February, 2023 at 2.30 pm
5. 24th April, 2023 at 2.30 pm

Major Recommendations:

- M201 will be divided into two parts - M201A-Hiralal Chaudhuri Biochemistry Lab and M201B - Salim Ali General Lab
- A section of teacher's room (M202A- Rachel Carson Hall) will be dedicated for Eco-Field Analysis Lab and another section of teacher's room (M202B - Har Govind Khorana Advance Lab)
- Room M203 is named as Darwin Hall
- Room M204 is named as Mendal Smart Class Room
- A section of vested land near the Food and Nutrition Department will dedicated for Gopal Chandra Bhattacharya Butterfly Garden

New Academic Programmes initiated: 19-09-2022

Interdisciplinary Programmes started: Nill

Achievement of Faculty Members:

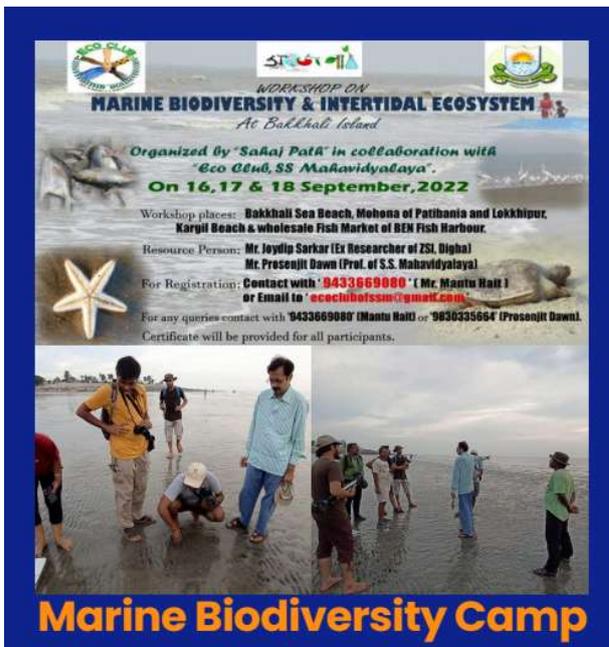
Mr. Prosenjit Dawn received Wetland Biodiversity Service Award 2022.

Mr. Prosenjit Dawn got awarded with Elite Topper certificate from NPTEL.



Details of seminars/Workshops/Conferences organized by the Departments Seminars/workshops conducted:

1. Marine Biodiversity Workshop at Bakkhali Sea Beach on 16th - 17th September, 2022.
2. Workshop on “Natural Colour Preparation and Conservation of Traditional Knowledge” at Garh Jungle, 25-30th December, 2022.
3. Migratory Bird Watch & Great Backyard Bird Count 2023 at Santragachhi Jheel on 18th February.
4. Observation of Darwin Day on 12th February
5. Observation of National Science Day 2023 on 28th February.
6. Observation of World Environment Day on 2023 on 5th June.



● Broad Objectives of the Activities

1. Promotion of Environmental and Scientific Awareness among students and locals
2. Encouragement of Sustainable Practices and Traditional Knowledge
3. Skill Development and Practical Learning to solve real life problems
4. Community Engagement and Behavioral Change for sustainable future





SCAN to visit us in Website



SCAN to visit us in Facebook

Initiatives towards Faculty Development Programme

Mr. Prosenjit Dawn participate in **Basic Course in Ornithology** by NPTEL on January-April, 2023



NPTEL-AICTE
Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

PROSENJIT DAWN

for successfully completing the course

Basic Course in Ornithology

with a consolidated score of **86 %**




Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2023)

Roll No: NPTEL23GE10S43961674

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

On-going Research projects of the department: Nill

Research projects applied by the department: Nill



Collaborative research programmes:

Citation index of faculty members and impact factor: 2018-23

Sl. No.	Author (Including Co-author)	Title of the Paper	Detail of Paper (including Vol., Issue, Pg. No.)	Nature of Paper (Journal/Conference/Book Chapter)	National/International	ISBN No/ISSN No.	Journal Impact factor/SCI Index No.	Year of Publication
1								
2								
3								
4								

Participation in National/International seminars, symposium, conferences, workshops etc. (2022-23)

A. Dr. D. C. Dhali

Title	Details
Papers in Conferences/ Seminars/ workshops etc. 1. Rice field spiders (Araneae: Arachnida) of Jamtagarh, Barasat, North 24 Parganas, West Bengal.	Participation and Presentation of research papers (oral/poster) in – International conference/symposium: Nill National conference/symposium/workshop: Regional conference/symposium/workshop: 1. Das, A. & D. C. Dhali (2023). 5 th Regional Science Congress & Technology Congress, 2022-2023. Zoology 244.

B. Mr. P. Dawn

Title	Details
Papers in Conferences/ Seminars/ workshops etc. 1. First Diversity India Meet (2022) held at Sundarbans, West Bengal, India. Version 1.2. 2. A Promising Area to Support Winter Migration of Birds. 3. Understanding Behaviour	Participation and Presentation of research papers (oral/poster) in – International conference/symposium: Nill National conference/symposium/workshop: 1. Basu Roy R, Raha A, Mazumdar A, Agarwal A, Roychaudhury D, Das N, Barman N, Sengupta N, Dawn P, Chowdhury P, Baidya S, Sinha S, Sarkar S, Biswas S, Vattakaven T, Basu Roy A, Barve V (2022). First Diversity India Meet (2022) held at Sundarbans, West Bengal, India. Version 1.2. Nature Mates-Nature Club. Occurrence dataset

<p>and Microhabitat Preference of Dragonfly Larvae Could Help to Control Insect Vectors in Urban Landscapes.</p> <p>4. Introduction of Nylon Mosquito Nets in Traditional Fishing Practice: A Rising Threat to Indigenous Fish Diversity.</p>	<p>https://doi.org/10.15468/ydut5r accessed via GBIF.org on 2024-12-31.</p> <p>Regional conference/symposium/workshop:</p> <ol style="list-style-type: none"> Adak, S., Manna, S. & P. Dawn (2023). Rupnaryan River Basin: 5th Regional Science Congress & Technology Congress, 2022-2023. Zoology 254. Nesha, I. & P. Dawn (2023). 5th Regional Science Congress & Technology Congress, 2022-2023. Zoology 279. Santra, S. & P. Dawn (2023). 5th Regional Science Congress & Technology Congress, 2022-2023. Fisheries and Agriculture.
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Community Services/ Extension Activities:

- Cultural Program - Bibartan 2022-23.
- Freshers Welcome and Farewell for Departmental students.
- Anti Early Marriage and Human Trafficking Awareness Camp at SSM Campus on 27th September, 2022.
- Biodiversity Awareness Camp at Shyampur Krishimela 2023 from 20 - 26th January.
- Observation of World Environment Day on 2023 on 5th June.
- Visit to Butterfly Lab with students at Eco-Park Butterfly Garden on 10th September 2022, Big Butterfly Month.
- Student Seminar and Alumni Interaction.



Awareness Camp at Shyampur Krishi Mela

Increase in the infrastructural facilities: Computer and Internet access and training to teachers and students.

Professional Body Membership of faculty members:

- Life Member of Zoological Society of Kolkata (**Dr. Dhruba Chandra Dhali, Dr. Mohua Das and Mr. Prosenjit Dawn**)
- Life Member of International Academy of Science and Research (IASR), Kolkata (**Dr. Dhruba Chandra Dhali**)



3. Editor for Websites: Subject editor in the websites (**Mr. Prosenjit Dawn**):
 - a. Odonata of India – website maintained by National Centre for Biological Science, Bengaluru. [<https://www.indianodonata.org/>]
 - b. Biodiversity of West Bengal – website maintained by Durgapur WINGS [<https://biodiversityofwestbengal.wildwingsindia.in/>]
4. Prakriti Samsad – Member (**Mr. Prosenjit Dawn**)
5. Diversity India Group (Dragonfly India) – Contributing Member (**Mr. Prosenjit Dawn**)
6. Diversity India Group (Spider India) – Contributing Member (**Dr. Dhruva Chandra Dhali**)
7. iNaturalist - Contributing Member and Subject Editor (**Mr. Prosenjit Dawn**)
8. Worldwide Dragonfly Association – Member with Journal subscription (**Mr. Prosenjit Dawn**)

Existing Lab resource: Laboratory papers offered:

Zoology-I lab (Hiralal Chaudhuri Biochemistry Lab)

Zoology-II lab (Salim Ali General Lab)

Zoology III lab (Har Govind Khorana Advance Lab)

Darwin Hall

Eco-Field Analysis Lab (Rachel Carson Hall)

Program	Department	Course	Level	Room No.	Room Area (sq. meter)	Is it the Research lab for PG?	Name of the laboratory	Lab/Major Equipment's	Investment till Date
B. Sc.	Zoology	CC6 CC7 CC9 CC11 DSE-B1	UG	201 A	200	NA- No PG course	Zoology-I lab (Hiralal Chaudhuri Biochemistry Lab)	Microtome	
								Paraffin Embedding Tray	
								Section Retrieval Tools -Brushes, forceps, needles to handle delicate sections	
								Microscope	
								Chromatography Chamber	
								Chromatography Paper Plastic Cuvettes Colorimeter Sahli's haemoglobin meter Digital BP machine	



Investment till Date	Lab/Major Equipment's	Name of the laboratory	Is it the Research lab for PG?	Room Area (sq. meter)	Room No.	Level	Course	Department	Program
	Microtome	Zoology-II lab (Salim Ali General Lab)	NA- No PG course	500	201 B	UG	GE-2 GE-3 GE-5 GE-6 DSE-B2	Zoology	B. Sc.
	Paraffin Embedding Tray								
	Section Retrieval Tools -Brushes, forceps, needles to handle delicate sections								
	Microscope								

Investment till Date	Lab/Major Equipment's	Name of the laboratory	Is it the Research lab for PG?	Room Area (sq. meter)	Room No.	Level	Course	Department	Program
	Phytoplankton nets	Eco-Field Analysis Lab (Rachel Carson Hall)	NA- No PG course	150	20A	UG	CC11 CC12 CC14 SEC-	Zoology	B. Sc.
	Computers with Wi-Fi								
	Microscopes								
	Simple Microscopes								

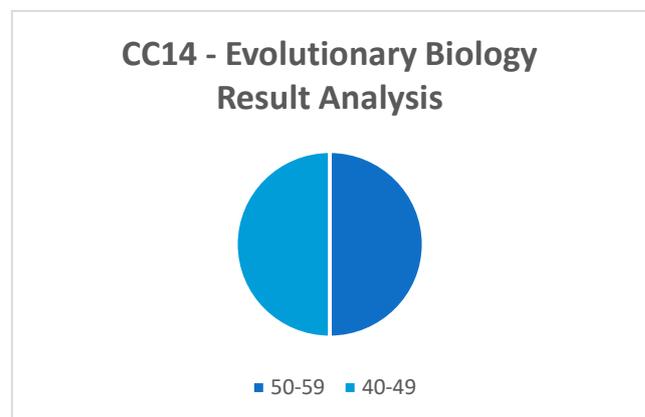
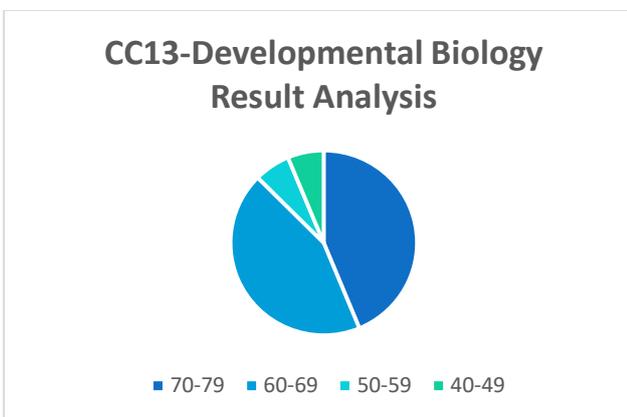
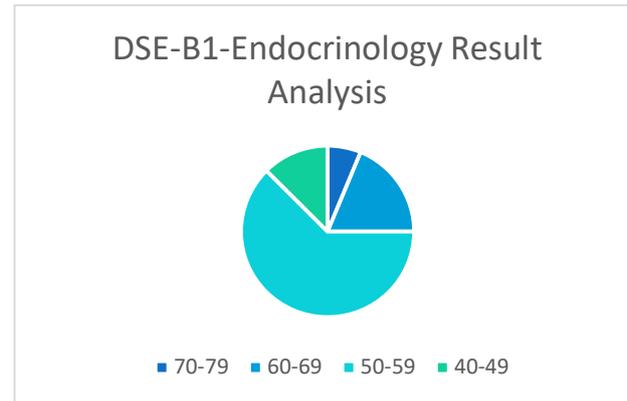
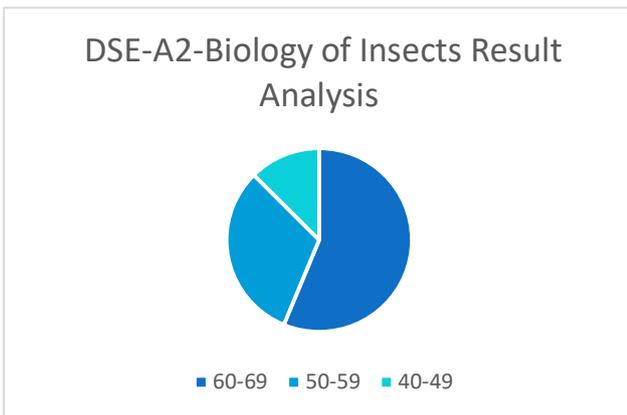
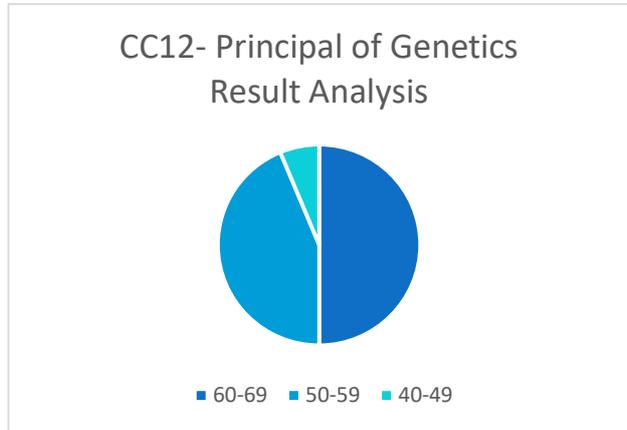
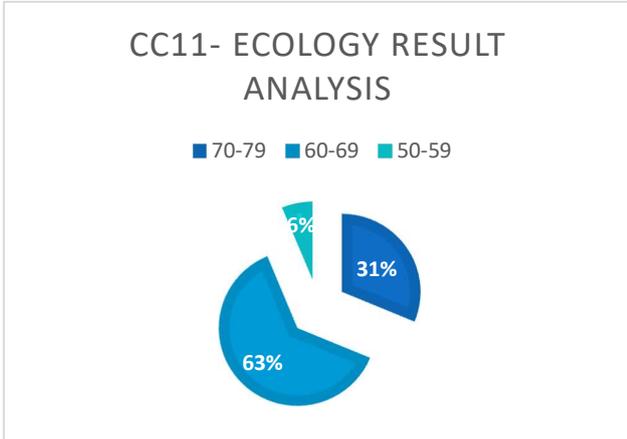
Investment till Date	Lab/Major Equipment's	Name of the laboratory	Is it the Research lab for PG?	Room Area (sq. meter)	Room No.	Level	Course	Department	Program
	Microscopes	Darwin Hall	NA- No PG course	600	203	UG	CC1 GE-1 GE-4 CC3 CC5 CC8 DSE-A2	Zoology	B. Sc.
	Simple Microscopes								
	Dissecting Microscope								
	Dissection Tray								
	Surgical Tools and Instruments								
	Projectors Computer								



Investment till Date	Lab/Major Equipment's	Name of the laboratory	Is it the Research lab for PG?	Room Area (sq. meter)	Room No.	Level	Course	Department	Program
	High Resolution Microscope	Zoology III lab (Har Govind Khorana Advance Lab)	NA- No PG course	600	202B	UG	CC2 CC4 CC10 DSE-B2	Zoology	B. Sc.
	Gell apparatus								
	Centrifuge								
	Homogenizer								
	Water Bath								
	Pipettes (Micropipettes)								
	Refrigerator (4°C)								
	Vortex Mixer								



Students' performance analysis in the University Examination (2022-23 ODD-EVEN semester):





The Counseling Activities of the Guidance and Counseling Unit:

1. NET-Life Science Coaching class
2. Gate - Life Science Coaching class
3. Psychological Counseling for mental strength

Students' mentorship program Batch: 2022-2023

NAME OF THE MENTOR: Dr. Dhruva Chandra Dhali

Sl	Roll	Name	Sl	Name	Roll
1	203424-11-0041	Saheli Manna	4	Bidisha Manna	203424-11-0050
2	203424-11-0047	Jogmaya Tung			
3	203424-11-0049	Saheli Guria			

NAME OF THE MENTOR: Dr. Mohua Das

Sl	Roll	Name	Sl	Name	Roll
1	203424-21-0054	Sudipta das	4	Pritam Das	203424-21-0053
2	203424-21-0057	Soumodip Samanta			
3	203424-21-0063	Soumya Garani			

NAME OF THE MENTOR: Mr. Prosenjit Dawn

Sl	Roll	Name	Sl	Name	Roll
1	203424-11-0051	Sunita Polley	4	Mou Rana	203424-11-0065
2	203424-11-0052	Rima Mondal.			
3	203424-11-0054	Labanya Dalapati			



Feedback System is introduced and the action taken on student's feedback.

1. Online feedback from all semester
2. Offline feedback by IQAC
3. Mentorship by teachers

Development Programme for non-teaching staff: Nil

Best Practices of the Department

1. Identification of Weak Learners, conduction of remedial classes on regular basis and mental support to students
2. Promotion of innovation within students and translating zoological knowledge into other career fields (Arts & craft, tourism, field assistance, food preparation etc.).
3. Biodiversity conservation and green movements.

Linkage developed with National/International Academic/Research bodies.

Future Plan about the Modernization of existing Laboratories & advancement of the department as a whole:

Already done

BUDGET FOR THE FINANCIAL YEAR 2022-2023

Accounts Head	2022-2023		
	Budgeted	Allocated	Utilized
Non-Recurring			
Capital Equipment: For U.G (Physics) lab. Phoenix tool kit designing science and engineering experiments. Complete setup, Polarimeter & related accessories, Optifical Fibre kit Hertz experimental setup, Oscilloscope etc.			



Software & License			
Library Books [For the purchase of books as per the recommendation of new syllabus and Book Bank of 2 nd year students]			
Seed Grant/Grant towards R&D and Innovation			
Furniture			
Miscellaneous			
Total			
Recurring			
Research & Development [Purchase of printing and stationary items, Pendrive, DVDs, chemicals, small electronics/electrical goods]			
Journal & Periodicals (Including E-resource)			
Visiting Faculty and staff Remuneration			
Laboratory Maintenance [Electrical Wiring or any electrical repairing job before the start of the new semester etc.]			
Laboratory consumable expenses [purchase of Slide Callipers, Screw guage, Steel tape, Convex lens, Table galvanometer, Bar magnet, DCC wire, prism, discharge tube, laser source, vacuum diode, thermometer, magnifying glass, 1 ohm resistance, Mini halogen lamp, spirit lamp, Black DVDs, Pendrive, antivirus, cartridge]			
Faculty Development & Initiative [Participation in Workshop and Seminars]			
Contingency Expenses			
Seminar & Workshop [Organization of a one day seminar]			
Expenses in Miscellaneous purposes like procurement of printing and stationary items			
Total			
Sum of Non-Recurring and Recurring expenditure			

Shruti Chandea Khali

(HEAD)
Department of Zoology