

# **DEPARTMENTAL PROFILE**

## **1. An Overview of the Department of Environmental Studies/Science:**

The Department of Environmental studies launched its journey in 2000 (tentative) by introducing Environmental studies as compulsory subject. According to the Notification No. CSR/17/12023, Environmental Studies has been included as one of the compulsory Common Value-Added Courses (CVAC) Course, to be studied in semester 1 & 2 for semester wise Four-year (Honours & Honours with Research) /Three-year (Multidisciplinary) programme of U.G. courses of studies, as applicable under CCF,2022.

According to the Notification No. CSR/20/12023, Environmental Science has been offered as Interdisciplinary Course (IDC) for semester wise Four-year (Honours & Honours with Research) /Three-year (Multidisciplinary) programme of U.G. courses of studies, as applicable under CCF,2022.

The above programmes are effective from the academic session 2023-2024.

There are two State Aided College teachers and one Guest Lecturer in this Department. The faculty members are always ready to render all possible assistance and guidance to the students within and outside the college campus as and when required. Interested students can express their views independently through their writing in the E-Magazine and teachers guide them properly in this regard. Besides teaching, this Department organizes seminar, webinar, nature walk, field visit etc. Teachers in this Department always inspire and motivate students to reach their full potential.

## **Evaluative Report of the Department of Environmental Studies/Science**

2. Name of the Department: **Department of Environmental Studies/Science**
3. Year of establishment: **2000 (Tentative)**
4. Names of Programs / Courses offered: UG [Common Value-Added Courses (CVAC) on Environmental Studies (Compulsory) and Interdisciplinary Course (IDC) in Environmental Science]
5. Name of Interdisciplinary courses and the departments / units involved: Environmental Science
6. Annual/Semester/Choice Based Credit System (programme wise): UG (Semester)
7. Participation of the department in the courses offered by other departments: **NIL**
8. Courses in collaboration with other universities, industries, foreign institutions, etc.: No.
9. Details of courses / programs discontinued (if any) with reasons: No.

9. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. Students guided for the last 4 years
Paushali Guha (Sarkar)	M.Sc. (Environmental Science), M.Phil., UGC-NET in Environmental Science M.A (Education), UGC-NET in Education M.Ed., Post Graduate Diploma in Guidance and Counselling (PGDGC)	State Aided College teacher (Category-1)	Environmental Process monitoring and management	13 years	NA
Shreya Ghosh	M.A (Environmental Studies), Environmental Analyst, B.Ed	State Aided College teacher (Category-2)	-	8 years	NA
Dr. Aditi Mukhopadhyay	M.Sc (Ecology & Environment) M.A (Education) Ph.D (Environmental Education)	Guest Lecturer		1 year	NA

10. List of senior Visiting Faculty: **NIL**

11. Number of lectures delivered by Senior visiting faculty: **NIL**

12. Number of lectures delivered by guest lecturers and part time lecturers: **3 hours/ week**

13. Student Teacher Ratio (program-wise): **1047: 3 or 349:1 (May,2024)**

CVAC (1<sup>st</sup> semester,2024) =858 students and IDC (1<sup>st</sup> semester,2024) =189 students

14. Number of academic support staff (technical) and administrative staff: sanctioned, filled: Not applicable.

15. Qualification of teaching faculty with DSc/D. Litt/Ph. D./MPhil/ PG: Please refer to serial No.....

Name	Qualification
Paushali Guha (Sarkar)	M.Sc. (Environmental Science), M.Phil., UGC-NET in Environmental Science M.A (Education), UGC-NET in Education M.Ed., Post Graduate Diploma in Guidance and Counselling (PGDGC)
Shreya Ghosh	M.A (Environmental Studies), Environmental Analyst, B.Ed.
Dr. Aditi Mukhopadhyay	M.Sc (Ecology & Environment) M.A (Education) Ph.D (Environmental Education)

16. Number of faculty with ongoing projects from a) national b) international funding agencies and grants received: **NIL**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc., total grants received: **NIL**

18. Research Centre /facility recognized by the University: No.

19. Publications: **Mentioned below**

20. Publication per faculty:

**Publications of Paushali Guha (Sarkar):**

**a. Journals**

Sl. No.	Description	ISSN	Year
1.	Bhattacharyya, S., Mukherjee, D., Sarkar, P., Ghosh, S., Samaddar, B., & Chaudhuri, P. (2015). Assessment of Viable Fungi in Indoor Air: A Case Study from Tagore's Residence at Jorasanko, India. <i>International Letters of Natural Sciences</i> , 33, 43-50. <a href="https://doi.org/10.18052/www.scipress.com/ilns.33.43">https://doi.org/10.18052/www.scipress.com/ilns.33.43</a>	ISSN: 2300-9675	January, 2015
2.	Sarkar, P., & Bhattacharyya, S. (2015). In-vitro study of bacterial biofertilizer in two agro-ecological niches & assessment of soil quality for vegetable farming. <i>Account of Biotechnological Research</i> , 2(3), 119-124. <a href="https://www.researchgate.net/publication/275834237_In-vitro_study_of_bacterial_bio-fertilizer_in_two_agro-ecological_niches_and_assessment_of_soil_quality_for_vegetable_farming">https://www.researchgate.net/publication/275834237_In-vitro_study_of_bacterial_bio-fertilizer_in_two_agro-ecological_niches_and_assessment_of_soil_quality_for_vegetable_farming</a>	ISSN: 2350-0646	January, 2015
3.	Guha (Sarkar), P., & Kumar Chand, T. (2021). Environmental education for sustainability: a major aspect in higher education. <i>International Journal of Researches</i> , 7(1), 55-67.	Print Journal ISSN: 2394-6873 Online Journal ISSN: 2394-885X	February, 2021

**b. Books/ book chapters**

Sl. No.	Description	ISBN	Year
1.	Roy, R., & Guha (Sarkar), P. (2020). Environmental education and sustainability in India: A relook. In <i>Essays on education</i> (pp. 126-131). N.B. Publications Ghaziabad-201102 (India).	ISBN: 978-93-89234-58-9	May, 2020
2.	Sarkar, P. (2020). Environmental education-role in environmental awareness among trainee teachers. In D. S. Nag (Ed.), <i>Teacher education in the 21st century: vision and prospects</i> (pp. 59-63). Educational Research Development and Review Committee	ISBN: 978-81-946178-0-8	June, 2020

3.	Guha (Sarkar), P. (2020a). Covid 19 and e-learning – teaching: a new challenges. In <i>Book of abstracts: International webinar on e-learning-teaching strategies and teachers' stress in post covid19sessions</i> (pp.79–80).KrishnaEnterprise.	ISBN:978-81-924009-2-1	July,2020
4.	Guha (Sarkar), P. (2020b). Lockdown and its effect on environment and education-Indian scenario. In <i>Novelcoronavirusdisease-19: unmasking the new face of education</i> (1sted., pp.179–201). HSRA Publications. Environmental Education for Sustainability :A Major Aspect in Higher Education	ISBN:978-93-90415-47-2	November, 2020
5.	Guha (Sarkar), P. (2021a). Significance of environmental education. In <i>Environmental education</i> (1sted.,pp.28–32).Red'shine publication.	ISBN:978-1-716-26492-4	January,2021
6.	Guha (Sarkar), P. (Ed.). (2021b). Disaster management and environment- Indian scenario. In <i>Environment, Education and Challenges</i> (pp. 203–218). N.B. Publications.	ISBN:978-93-89234-89-3	January,2021
7.	Guha (Sarkar), P. (2021a). Environmental education-importance & scope, aims and objectives. In B. Ghosh (Ed.), <i>Multidisciplinary subjects for research-VII</i> (Red'shine publication ed., Vol. 1, pp. 86–89). Red'shine publication.	ISBN: 978-1-4834-3085-0	May,2021
8.	Guha (Sarkar), P. (2021b). Women empowerment in India. In <i>National education policy: 2020 and gender equality</i> (1st ed., pp. 126– 137). Red'shine publication.	ISBN: 978-1-4834-3032-4	May,2021
9.	Guha (Sarkar), P. (2021c). Population explosion and its impact on environment in Indian scenario [E-book]. In <i>Global issues of poverty, development and population</i> (1st ed., pp. 70–79). Red'shine publication. <a href="https://doi.org/10.25215/9198758101">https://doi.org/10.25215/9198758101</a>	ISBN: 978-91-987581-0-8 ISBN-10:9-19-875810-1	December,2021
10.	Guha (Sarkar), P. (2022a). Global warming - tragedy of mankind [E-book]. In <i>Environment and education</i> (1st ed., pp. 100–111). Red'shine publication.  One of the Associate Editors of the International chapter book on <i>Environment and education</i> (1st ed.). Red'shine publication	ISBN: 978-91-987582-7-6 ISBN-10: 91-987582-7-6	February, 2022
11.	Guha (Sarkar), P. (2022b). Role of women empowerment for sustainable development in modern Indian society [E-book].In <i>Women empowerment in India: the changing scenario</i> (1st ed., pp.266-279). Red'shine publication.	ISBN: 978-91-987662-5-7 ISBN-10: 91-987662-5-2	March, 2022
12.	Guha (Sarkar), P. (2022c).Management of agricultural waste -an overview[E-book].In <i>Environmental education</i> (1st ed., pp. 7-16). Red'shine publication  One of the <b>Co-editors</b> of the International peer-reviewed book on <i>Environmental education</i> (1st ed.). Red'shine publication	ISBN: 978-91-987830-4-9 ISBN-10: 91-987830-4-1	April,2022

**Publications of Shreya Ghosh:****Journals**

<b>Sl. No.</b>	<b>Description</b>	<b>ISSN</b>	<b>Year</b>
1.	Ghosh, S., Chaudhuri, P., Jeelani, S., and Bhattacharyya, S. (2015). Impact of carbaryl insecticides on metamorphosis of <i>Papiliodemoleus</i> (1.) larvae in laboratory condition. <i>International Journal of Research in Biosciences</i> Vol. 4 Issue 2, pp. (44-50),	ISSN :2319-2844	2015
2.	Bhattacharyya, S., Mukherjee, D., Sarkar, P., Ghosh, S., Samaddar, B., & Chaudhuri, P. (2015). Assessment of Viable Fungi in Indoor Air: A Case Study from Tagore's Residence at Jorasanko, India. <i>International Letters of Natural Sciences</i> , 33, 43-50.	ISSN :2300-9675	2015
3.	Ghosh,S., Pal,S (2022). Perception Of School-Children On The Use Of Plastic And It's Impact On Environment: A Case Study On Christ's Mission Public School, Kolkata, West Bengal. <i>Vidyabharati International Interdisciplinary Research Journal, Special Issue on Living Sustainably in Harmony With Nature</i> , 60-67	ISSN: 2319-4979	2022
4.	Ghosh,S., Debnath ,M.(2022). The Perception Of Urban People On The Role Of Urban Forestry To Mitigate Climate Change And Environmental Pollution In Urban Areas: A Survey On The Citizens Of Laketown, Kolkata In West Bengal. <i>Vidyabharati International Interdisciplinary Research Journal, Special Issue on Living Sustainably in Harmony With Nature</i> ,73-81	ISSN: 2319-4979	2022

**Publications of DR. Aditi Mukhopadhyay:**

**a. Journals**

Sl. No.	Description	ISSN	Year
1.	<i>Mukhopadhyay,A.(2020);Role of Eco - Feminism ( gender) to save Environment -A study from different universities of West Bengal.Renova , Department of Education, Jadhavpur University,Kolkata - 700032 ,6(1), 34 - 46</i>	ISSN No.2454-1710	2020
2.	Mukhopadhyay,A.(2019).Role of subject and Stream of Education to raise environmental knowledge and attitudes towards environment-a case study from different Universities of West Bengal, Renova, Dept. Of Education, Jadhavpur university, Kol-700032,5(1).	ISSN No. 2454-1710	2019
3.	Mukhopadhyay,A.(2018).Women Education:Women Empowerment-A case study of D.D.E, R.B.U, Renova, Dept. Of Education, Jadavapur University, Kol-700032,4(1),121-134.	ISSN No. 2454-1710	2018
4.	Mukhopadhyay,A.(2017).Knowledge of Post Graduate Students on Environmental education, Evolving Horizons. Satyapriya Roy College of Education, 232-248.	ISSN No.2319-6521	2017
5.	Mukhopadhyay,A.(2017).Post Graduate Students Environmental Knowledge-A case study of Rabindra Bharati University, Sikshachintan, Ramkrishna Mission Siksha Mandir, C.U , Belur Math, Howrah-711202,W.B, vol.1,191-200.	ISSN No.0973-5461	2017
6.	Mukhopadhyay, A.(2017). Post Graduate students Environmental Knowledge- A case study of Aliah University, Renova, Dept. Of Education, Jadavapur university, Kol-700032,3(1),217-226.	ISSN No.2454-1710	2017
7.	Mukhopadhyay, A. (2016). Rabindranath Tagore as an environmentalist, Anwesa, Ramkrishna mission Brahmananda College of Education, vol.11,53-57.	ISSN No. 0973-5895	2016
8.	Mukhopadhyay,A.(2016).Pro Environmental Behavior of Post Graduate Environmental Studies, students of Directorate of Distance Education, R. B.U- A study, Renova, Dept. Of Education, Jadavapur university, Kol-700032,2(1),132-137.	ISSN No.2454-1710	2016

**b. Books/ book chapters**

Sl. No.	Description	ISBN	Year
1.	<i>Mukhopadhyay.A.(2024).Environmental Education and Environmental Awareness Ancient to Modern India. Environmental Education Contemporary Persp6,Vol1,193 -200</i>	ISBN No. 9798-89363-379-5	2024
2.	Mukhopadhyay,A.(2020).Role of counseling of citizens through Environmental knowledge to raise Positive Environmental Attitudes towards Environment: A case study from different Universities of West Bengal, Seminar Proceedings, Department of Education,Jadavpur University, 274 -288	ISBN No.978-93-87879-73-7	2020
3.	Mukhopadhyay,A.(2019).Rabindra Sahitya Eco - Feminism: Raktakarabi.Sarbato mukhi Rabindranath.Department of Education,Jadavpur University,Kolkata - 700032 ,451 - 456	ISBN No.978-93-83660-55-1	2019
4.	Mukhopadhyay,A.&Nanda, B.(2017) .Sexuality issues among Adolescents with developmental Disabilities, Department of education, Jadavpur University in collaboration with Arogya Sandhan Charitable Trust, Santoshpur and Tunstone Global,91 - 94	ISBN No. 978-73-83660-32-2	2017
5.	Mukhopadhyay.A.(2015). Paribesh Bhabnaye Rabindranath, BIBIDHA PRASANGA: BISHAYA RABINDRANATH, vol.1 ,58 - 64	ISBN No.978-93-83660-15-5	2015
6.	Mukhopadhyay,A.(2015).Paribesh Bhabnaye Rabindranath, BIBIDHA PRASANGA: BISHAYA RABINDRANATH, vol.2	ISBN No.978-93-83660-15-5	2015
7.	Mukhopadhyay, A.(2015) .Women :Protector of Environment.Women Society and Education, Seminar Proceedings, Department of Education, Jadavpur University,51 -55.	ISBN No.978-93-83660-07-0	2015

22.Research work, Publications and other information of:

Name of the teacher: DR. Aditi Mukhopadhyay

<b>Research Work</b>	<p>Smt. Aditi Mukhopadhyay was awarded the degree of Doctor of Philosophy in Arts of the Jadavpur University on 20.11.2018</p> <p>The degree was conferred at the convocation held in December, 2018</p>	<p>Topic of the P.hd was-</p> <p>Knowledge and attitude of Post graduate students towards environmental education</p>
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23. Publications: **Please see above**

24. Books edited: **NIL**

25.Seminar/Conference (National & International): **NIL**

26.Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)

Citation Index – range / average : **NIL**

SNIP: **NIL**

SJR: **NIL**

Impact Factor – range / average: **NIL**

h-index: **NIL**

27.Areas of consultancy and income generated : **NIL**

28.Faculty as members in

a) National committees b) International committees c) Editorial Boards: **No**

29.percentage of students placed for projects in organizations outside the institution i.e., in Research laboratories / Industry / other agencies: **NIL**

30.Awards / recognitions received at the national and international level by

Faculty: **NIL**

Students: **NIL**

31.List of eminent academicians and scientists / visitors to the department: **NIL**

SI No	Name	Designation	Institute

32.Seminars/ Conferences/Workshops organized and the source of funding: **2**

Departmental Seminars (without any external funding)

Sl. No	Date	Details	Speaker	Number of participants
1.	28 <sup>th</sup> April,2023	Department of Environmental Studies in collaboration with the Study Circle and Seminar Committee, MKC Organizes Seminar on <b>“Microplastics-an invisible disaster”</b> . Date: 28.04.2023	Dr. Punarbasu Chaudhuri, Associate Professor, Department of Environmental Science, University Of Calcutta	Number of MKC Students=141 Number of external students=3



		Venue: Room no- 08 Time duration: 9AM-10.35AM		Number of teachers=25  Office staff=4  <b>Total number of participants= 173</b>
2.	05 <sup>th</sup> June,2023	Department of Environmental Studies in collaboration with the NSS Unit Organizes <b>Webinar (Google Meet)</b> on the World Environment Day, 2023.  Date: 05.06.2023 Time: 8.30 AM-10.30 AM AND  Inauguration of <b>E-magazine</b> related to Environmental issues	Dr. Dalia Ghosh Dastidar  Joint Secretary, Beats of Nature Society & Project Scientist of Soaring Sparrows Foundation	Total number of participants i.e., Students and teachers of Maharani Kasiswari College and external students = <b>133</b>

33.Student profile program-wise: **NA**

Name of the Course/Programme (refer to question no. 4)	Applications received	Selected		Enrolled		Pass percentage
		Male	Female	* M	* F	
<b>B.A. Part I (Hon)</b>						
<b>B.A. Part II (Hon)</b>						
<b>B.A. Part III (Hon)</b>						

\* M=Male \* F=Female

34.-Diversity of students: **NA**

Name of the Course	% of students from the same State	% of students from other State	% of students from abroad
B.A. 1 <sup>st</sup> year Hon	----	-----	-----
B.A 1 <sup>st</sup> year (Gen)	----	-----	-----
B.A. 2 <sup>nd</sup> year(Hon)	----	-----	-----
B.A. 2 <sup>nd</sup> year(Gen)	----	-----	-----
B.A. 3 <sup>rd</sup> year(Hon)	----	-----	-----
B.A. 3 <sup>r</sup> year (Gen)	----	-----	-----

35. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services and Defence Services etc.? **NA**

Name	Examination

(Note: It is further notified that the considerable number of our students is in School Service, some are also in Defence and Civil services. For ref...only.)

36. Student progression: **NA**

Student Progression	Against % enrolled
<b>UG to PG</b>	-----
<b>PG to M.Phil</b>	-----
<b>PG to Ph.D</b>	-----
<b>Ph.D to Post-Doctoral</b>	-----
<b>Employed- Campus selectio -Other than campus recruitment</b>	-----
<b>Entrepreneurship/Self-employment</b>	-----

37. Details of infrastructural facilities

a) Library: **Books are available in Gyandhara (library in the science building)**

b) Internet facilities for staff and students: **Available in the Gyandhara (library in the science building)**

c) Class rooms with ICT facility: **Available**

e) Laboratories: **NA**

38. Number of students receiving financial assistance from College, University, government or other agencies: No data found

39. Details of student enrichment programmes (special lectures / workshops/seminar) with external experts: **NIL**

40. Teaching methods adopted to improve student learning

i. Lecture method

ii. Rapid participatory techniques

iii. Demonstration method.

SWOC analysis of the department and future plans.

### **Strength**

1. Department has highly qualified faculties.
2. All the teachers have publications.
3. Teachers are approachable and always ready to render all possible assistance and guidance to students.
4. Very energetic department with active participation in various college activities like cultural activities, National Service Scheme (NSS), Sports, celebration of Environment Day, Earth Day etc.

### **Weakness**

1. There is a little scope to organise a field visit to explore different aspects of environment.
2. Lack of regular attendance in the classes.

### **Opportunities**

Environmental studies and Environmental Science connect students to the world and imparts knowledge about the current situation and future prospects of nature. It raises awareness of issues impacting the environment and also teaches students to explore all the problems related to the environment, and engage in wise ways of preserving it.

### **Challenges**

Environmental studies and Environmental Science are not a core subject. It is a compulsory subject as Common Value-Added Courses (CVAC) Course. Presently, Environmental Science is one of the Interdisciplinary Courses (IDC) opted by the students. Huge number of students are taught by the three faculty members. So, it is a great challenge to motivate every student during class hours.

### **Future plans**

1. Environmental studies is a multidisciplinary academic field which systematically studies human interaction with the environment. Environmental studies is based on principles from the physical sciences, commerce/economics, the humanities, and social science to address complex contemporary environmental issues. So, it would be beneficial if it would be introduced as a core subject.
2. Guiding students for their professional establishment.