



10TH RANKED
in West Bengal
59TH RANKED
in India

Education World

EW NON-AUTONOMOUS COLLEGES
STATE RANKINGS 2023-24



PhD
ADMISSION
BROCHURE
2023-24

*Change is the end result
of all true learning*

MIDNAPORE
CITY COLLEGE

+91 9547414192 | +91 8967598946 | +91 9932318368

Recognized by: UGC, Govt. of India and Department of Scientific Industrial Research (DSIR) Govt. of India as Scientific and Industrial Research Organisation (SIRO).

Affiliated to: Vidyasagar University

Name of the Research Centre: BIODIVERSITY AND ENVIRONMENTAL STUDIES

Research is the backbone of academics. It simplifies the concept building activities and transforms new ideas into innovations in pursuance of a new era of passion for researchers. Each finding gives immense pleasure and multiplies enthusiasm towards achieving the target.

The 'Research Centre' aims to nurture research culture in the college by promoting research in newly emerging and challenging areas of 'Biodiversity and Environmental Studies'. It encourages the students and faculty to undertake the research in newly emerging frontier areas of 'Biodiversity and Environmental Studies' including multidisciplinary fields. It enables us to address challenges that societies face today through collaborative efforts that bring together different approaches in an innovative way. It integrates knowledge and methods from different disciplines, using a real synthesis of approaches. This enhances the general research capability of budding technocrats and researchers by way of participating in conferences, seminars, workshops, project competition, etc.

THRUST AREAS

- I. Biodiversity and Environment (BE)
- ii. Computational Science (CS)
- iii. Community Nutrition and Food Science (CNFS)
- iv. Cancer Biology (CB)
- v. Microbial Technology (MT)
- vi. Space & Interstellar Environment (SIE)
- vii. Atmospheric Analysis (AA)
- viii. Green Chemistry (GC)
- ix. Biomedical Sciences Research (BSR)
- x. Societal and Cultural Research (SCS)



OBJECTIVES:

- i. To develop human resource in the field of "Biodiversity and Environmental Studies" so that skilled and technically enriched human resource would be generated for vertical up-gradation.
- ii. To encourage multidisciplinary and cross disciplinary research for serving the community in a better-than-now way.
- iii. To translate the research output from laboratory to community for up-gradation of public health, environmental protection, upliftment of public awareness, modification in attitude and practices for generation of developed community in future.
- iv. To conduct a resource centre for dissemination of knowledge through organization of national-level seminars, workshops, summer & winter training schools and science camps to motivate the students of various levels and common people in the professional empowerment, and entrepreneurship development for socio-economic evolution in positive direction.
- v. To expand the intellectual property bank at State and National level from the research output and impact of the centre in connection to forward progression.
- vi. To exchange knowledge among investigators in the proposed research centre and eminent experts inside and outside the country through conducting research in joint venture.
- vii. To publish the obtained results in National and International Journals of repute for dissemination of knowledge to the community in connection to modification of attitudes, behaviour, habits of common people for societal upgradation and health friendly environment development.
- viii. To provide opportunities to young researchers to compete for M. Phil and Ph.D degrees.

LIST OF SUPERVISORS

Sl. No.	NAME OF THE SUPERVISOR	DESIGNATION	MAJOR AREAS OF RESEARCH
1	Dr. Sudipta Chakrabarti	Principal	1. Anti-inflammatory drug development for neurological diseases. 2. Stem Cell Research and Cancer Biology.
2	Dr. Kuntal Ghosh	Vice-principal	1. Functional Food Research. 2. Bacteriophage as a biocontrol agent.
3	Dr. Sangita Maity Dutta	Assistant Professor of Zoology	1. Bio diversity, Morphology, and Taxonomy.
4	Dr. Sabyasachi Pal	Associate Professor of Physics	1. Astrophysics, Black holes, supernova remnants, Radio astronomy, Gamma ray burst etc. 2. Geological and Earth Science.
5	Dr. Shrabani Pradhan	Assistant Professor of Nutrition	1. Fatty acid analysis 2. Drug development for anticancer and antiobesity
6	Dr. Suchismita Roy	Assistant Professor of Nutrition	1. Public Health and Health Information 2. Nutrigenomics
7	Dr. Anulina Manna	Assistant Professor of Botany	1. Transgenic plant
8	Dr. Atanu Das	Assistant Professor of Physics	1. Semiconductor Devices 2. Two-Dimensional (2D) Oxide for Sensors
9	Dr. Abhishek Ghosh	Assistant Professor of Chemistry	1. Nanomaterials
10	Dr. Anirban Baitalik	Assistant Professor of Geography	1. Tourism 2. Development and Environment 3. Coastal Studies 4. Disaster Management 5. Rural Development
11	Dr. Prankrishna Manna	Assistant Professor of Chemistry	1. Nanomaterial & Supramolecular Synthesis and Applications (NSSA)
12	Dr. Santanu Kar Mahapatra	Associate Professor of Physiology	1. Infection Immunity and Cancer Biology
13.	Dr. Arpita Raj	Assistant Professor of English	1. Tribal Literature 2. Tribal Culture and Identity 3. Folk Literature
14	Dr. Rakesh Jana	Assistant Professor of Bengali	1. কথা সাহিত্য
15	Dr. Subhendu Kumar Manna	Assistant Professor of Physics	1. Experimental Condensed Matter Physics
16	Dr. Monjit Paul	Assistant Professor of Fishery	1. Aquatic Pathobiology
17	Dr. Rajkumar Bera	Assistant Professor of English	1. Indian English Literature and Literary Theory
18	Dr. Somanka Sanyal	Assistant Professor of Zoology	1. Soil Zoology, Entomology and Ecotoxicology
19	Dr. Manisha Das	Assistant Professor of Chemistry	1. Synthetic Coordination Chemistry 2. Bioinorganic Chemistry
20	Dr. Jagannath Pal	Assistant Professor of Chemistry	1. Computational Science 2. Computational Chemistry
21	Dr. Kartic Bera	Assistant Professor of Geography	1. Dry-land Management 2. Water Resource 3. Climate Risk

LIST OF ONGOING GOVT. FUNDED RESEARCH PROJECTS

Sl. No.	Title of project	Sponsoring Agency	Principal Investigator	Total Cost
1.	Establishment of new anti-cancer activity of peptide(s) and conjugate fatty acids CFA(s) extracted from Tapra fish (Opisthoperus tardoore) oil: A mechanistic study.	ICMR Govt. of India [5/9/1223/2019-Nut].	Dr. Shrabani Pradhan	Rs. 23,42,476/-
2.	Screening and profiling of genomic composition of Vibrio harveyi-infecting bacteriophages and assessment its efficacy in field trial condition to prevent Vibrio harveyi infection in tiger shrimps (Penaeus monodon)	SERB Govt. of India [CRG/2019/ 001750]	Dr. Kuntal Ghosh	Rs. 34,94,829/-
3.	Early detection of kidney dysfunction and identification of bioactive phytocompound(s) from Asparagus racemosus roots for protection of renal failure in rats	ICMR-Adhoc, Govt. of India [5 / 4 17 -15 /Nephro / 202 1-N CD-II]	Dr. Suchismita Roy	Rs. 44,01,834/-
4.	Determination of the role of Syringic acid in conversion of poor learning mice into good learners: Implications in memory improvement	ICMR-Adhoc, Govt. of India [Ref: 2021-11819]	Dr. Sudipta Chakrabarti	Rs. 46,94,332/-
5.	Establishment of anti-obesity potentiality of new conjugated fatty acids isolated from marine Phasa fish oil (Setipinna phasa) on in vivo and in vitro model-A Mechanistic study	ICMR Govt. of India [Ref: 5/9/1453/-22Nut.]	Dr. Shrabani Pradhan	Rs. 43,79,932/-
7.	A multicentre project: Comprehensive Tribal TB Management Program for Decentralized TB Care Services	ICMR-ITRC, Govt. of India, [5/8/5/3/IR/Tri-TB/ITRC/2022/ECD-1].	Dr. Santanu Kar Mahapatra	Rs. 63,46,674/-
8.	Magnetic skyrmions and their transverse transport studies for spintronic applications	SERB, DST, Govt. of India	Dr. Subhendu Kumar Manna	Rs. 42,54,335.00
9.	Study of the synergic anti-leishmanial effect of eugenol oleate and amphotericin B through liposomal delivery	ICMR Govt. of India	Dr. Santanu Kar Mahapatra	Rs. 53,79,700.00
10	Study of macrophage repolarization to augment anti-leishmanial immune response by isolated glycoprotein from the nutshell of Arachis hypogea L	SERB, DST, Govt. of India	Dr. Santanu Kar Mahapatra	Rs. 45,98,440.00

PhD SUBJECTS

- 1. Bengali
- 2. English
- 3. Botany
- 4. Zoology
- 5. Physiology
- 6. Nutrition
- 7. Medical Laboratory Technology
- 8. Microbiology
- 9. Physics
- 10. Chemistry
- 11. Mathematics
- 12. Geography

COLLABORATIVE PROGRAMMES

- The College signed MOU with Rush University of Medical Centre, Chicago, IL 60612, USA for promotion of research activities.
- The College signed MOU with Department of Food Science and Technology, Jeonbuk National University, South Korea for promotion of research activities.

PhD ADMISSION SCHEDULE FOR THE ACADEMIC SESSION 2023-24

Online form fill up will Start	:	01.11.2023
Online form fill up will Close	:	15.11.2023
Date of interview (viva-voce)	:	22.11.2023 & 23.11.2023
Date of publication of merit list	:	30.11.2023
Date of admission (offline)	:	01.12.2023 to 04.12.2023

ELIGIBILITY CRITERIA FOR APPLICATION

- a. Candidate must obtain Master Degree in regular mode from any UGC recognized University/ Institute with 55% of marks and 5% relaxation for reserved category candidates as per Govt. of West Bengal norms.
- b. Candidate who has completed at least a total period of 5 years in UG and PG study from a UGC recognized Institution or University.
- c. Candidate is not running any other full time course of studies or registered for doing Ph. D in any other Institute and/or University.
- d. Candidates who have regular M.Phil. /M. Tech. or a degree deemed to be equivalent by the Board of Research Studies of Vidyasagar University and the candidates who will complete the process of submission of their M.Phil. Dissertation before 30.09.2022 shall be exempted from appearing at the Written Admission Test and will have to appear only at an interview to be conducted by the Ph.D. Committee.
- e. Candidates who have qualified the NET/GATE/SET or any other equivalent examinations conducted by UGC and /or any other agency of Govt. of India / state Govt. shall considered equivalent by the Board of Research Studies of Vidyasagar University, also be exempted from appearing at the Written Admission Test and will have to appear at an interview only before the Ph. D committee.
- f. In all other cases, the candidates will have to appear at the Written Admission Test and if qualified, have to appear at an interview to be conducted by the respective Ph.D. Committee, provided that the candidates, obtaining fifty percent marks at the Written Admission Test, shall be eligible to appear at the interview.
- g. Final semester Post Graduate students are eligible to apply for the Ph.D. programme provided that they must fulfill the aforesaid requirements on or before the interview process conducted by the Ph. D committee.
- h. College deserved right to impose any other eligibility condition for admission subject to approval of Vidyasagar University as amended by UGC from time to time.

FEES STRUCTURE

Admission Fees:	Rs. 15,000.00
PhD enrolment fees:	Rs. 10,100.00
Course work fees:	Rs. 15,000.00
PhD thesis submission fees:	Rs. 17,000.00
Extending time for thesis submission:	Rs. 4000.00



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