



**VIDYASAGAR METROPOLITAN COLLEGE**

ANNUAL REPORT 2022-2023

Vidyasagar Metropolitan College (formerly Vidyasagar Evening College) shares a rich legacy with its sister institutions, Vidyasagar College and Vidyasagar College for Women. This legacy dates back to 1859 when Pandit Ishwar Chandra Vidyasagar became President of the Managing Committee of the Calcutta Training School, which led to the establishment of the Metropolitan Institution in 1860. The College was affiliated with Calcutta University for Arts in 1872, and in 1917, it was renamed Vidyasagar College, marking a period of rapid growth. The Commerce Department, the oldest in India, was formally established in 1922, with the Morning Section for Women introduced in 1931. In response to growing faculty and student numbers, a separate evening wing for Commerce was created in 1951. This evening section became an independent entity in 1961, adopting the name Vidyasagar Evening College, and has since provided quality education to a diverse student body.

Over the past sixty years, Vidyasagar Metropolitan College has evolved significantly. Initially, the coeducational institution faced challenges due to shared space with its sister colleges, limiting academic expansion. However, with the construction of a new building in 2014 and adjustments to the College's working hours, it is now better equipped to expand its academic offerings. The change in working hours led to the renaming of the institution to Vidyasagar Metropolitan College, approved by the University of Calcutta, the Higher Education Council, the Government of West Bengal, and the UGC. Today, the College offers Honours and General courses in Commerce, as well as undergraduate programs in Humanities and Science, with Honours available in Bengali, English, Political Science, Geography, Mathematics, Physics, and Physiology. While challenges remain, the College continues to make progress towards its long-term goals.

The document outlines various academic, extracurricular, and collaborative activities at Vidyasagar Metropolitan College. Several courses were conducted, including Nutrition and Public Health Awareness, ICT and Computing Skills, and Mushroom Cultivation, among others. Admission and examination data reveal student performance across various programs, with significant admissions in B.Com Honours and B.A General courses.

The college organized numerous outreach programs through its NSS unit, such as Thalassemia Awareness, Blood Donation Camps, and Dengue Awareness Rallies. Faculty members participated in various professional development programs and published research papers in reputed journals, covering diverse topics from material science to environmental studies.

The college also engaged in collaborations with other institutions, including partnerships with several local colleges and national organizations for skill enhancement and capacity development. Key events included Independence Day celebrations, sports tournaments, and academic competitions. Awards and recognitions were also highlighted, including an outstanding paper award for Dr. Priyanka Khanduri and a D.Litt. degree for Dr. Sanjoy Pramanick.

### Add on Course held in 2022-23

Name of the Courses	Duration of course
Nutrition and Public Health Awareness	4th Nov 2022 - 24th Dec 2022
Bangla Banan Samosya o Proof Sangshodhan	1st Dec 2022 - 21st Dec 2023
ICT and Computing Skills Level - 2	20th Feb 2023 - 12th May 2023
Consumer Protection Act-Rights & Responsibilities	4th Aug 2022 - 11 Aug 2022
Mushroom Cultivation	4th Apr 2023 - 30th Jun 2023

### Students Intake for 2022-23

Program Name	Number of seats sanctioned	Number of students admitted
Bengali Honours	80	25
English Honours	80	54
Political Science Honours	80	22
Geography Honours	40	39
Mathematics honours	80	05
Physics Honours	50	03
Physiology Honours	70	27
B. Com Honours	90	74
B.A General	200	73
B.Sc General	100	05
B. Com General	90	49



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## Result of Final Semester 2022-23

Program Name	Number of students appeared	Number of students passed
Bengali Honours	11	07
English Honours	25	11
Political Science Honours	16	13
Geography Honours	35	28
Mathematics honours	07	01
Physics Honours	13	04
Physiology Honours	23	16
B.Com Honours	52	12
B.A General	56	12
B.Sc General	08	06
B.Com General	37	16

## Extension and outreach program organised

Name of the program	Organising unit/ agency/ collaborating agency	Name of the scheme
Thalassemia Awareness and Screening Programme, on 06.04.2023	NSS unit, VMC in collaboration with the Thalassemia Control Unit of Dr. B.C. Roy Post Graduate Institute of Paediatric Sciences, Kolkata	Awareness programme
Blood Donation Camp on 23.02.23	VMC and Students Union	Awareness programme
Free Eye Check-up Camp on 23.01.2023	NSS unit, VMC in association with the Susrut Eye Foundation & Research Centre, Kolkata	NSS regular activity
National Youth Week 12.01.23-19.01.23	NSS Unit	NSS regular activity
Dengue Awareness Rally on 11.11.2022	NSS unit, VMC with NSS unit of Calcutta University and other colleges	Awareness programme

## Extension and outreach program organised

Name of the program	Organising unit/ agency/ collaborating agency	Name of the scheme
Plog Run cum awareness rally on 20.10.2022	NSS unit, VMC in collaboration with NSS unit of Bethune College, Kolkata	Celebration of 75 years of independence
Clean India Campaign on 19.10.2022	NSS unit, VMC and NSS unit of other colleges	Celebration of "Azadi ka Amrit Mahotsav"
Distribution of food items and bed sheets to the slum dwellers on 24.09.2022	NSS unit, VMC	Service to the community
Fancy Dress Competition by slum children on 15.08.2022	NSS unit, VMC	<i>Smarane Virangana</i>
Slum visit by NSS Volunteers on 10.08.2022	NSS unit, VMC	NSS regular activity



## Faculty Development Program attended

<b>Name of the participant</b>	<b>Title of the FDP /MDP/ professional development / administrative training program</b>
Dr Shubhankar Roy	RC in Material Science in UGC HRDC Bharatidasan University
Dr Shubhankar Roy	FDP in Amity University
Dr Shubhankar Roy	FIP in UGC HRDC Aligarh Muslim University
Dr. Priyanka Khanduri	Refresher Course in environmental studies
Dr. Shyamasree Ghosh Dastidar	STC UGC HRDC ON MOOC at J.U.
Dr Kartick Malik	Short-Term Course on Academic leadership
Dr. Priyanka Khanduri	Short-Term Course on Academic leadership
Dr Mohsin Islam	FDP on "MATHEMATICS AND ITS APPLICATION" organized by the Department of Mathematics, St. Xavier's College, Kolkata
Dr. Priyanka Khanduri	Short-Term Course in Research Methodology in Basic Sciences
Dr. Srinwanti Mukhopadhyay	Online Workshop on studying History: Perspective and sources-JU
Ms Damayanti Bakra	STC in Research Methodology and Ethics
Abrar Alam	Refresher Course in Liberal Arts
Dr Kartick Malik	Faculty Development Programme on ICT Tools for Effective Teaching and Learning, organised by National Institute of Technical Teachers' Training and Research, Kolkata
Dr Kartick Malik	Faculty Development Programme on Holistic and Multi-Disciplinary Education organised by National Institute of Technical Teachers' Training and Research
Dr Kartick Malik	Faculty Development Programme on 'Advanced Pedagogy', organised by National Institute of Technical Teachers' Training and Research, Kolkata
Dr Tapan Kumar Lai	FDP on Recent Trends in Chemistry organised by VIT-AP
Dr. Sandip Mukherjee	FDP on Recent Trends in Chemistry organised by VIT-AP

## Research and Publication

Title of paper	Name of the author/s	Name of journal	ISSN No.
Signatures of Topological Surface State and Unconventional Magnetotransport Properties in Elemental Ruthenium	Ratnadwip Singha, Shuvam Sarkar, Arup Ghosh, Shubhankar Roy, Sajal Barman, Mohammad Balal, Sudipta Roy Barman, Prabhat Manda	Advanced Quantum Technologies	2511-9044
Charge density wave induced nodal lines in LaTe <sub>3</sub>	Shuvam Sarkar, Joydipto Bhattacharya, Pampa Sadhukhan, Davide Curcio, Rajeev Dutt, Vipin Kumar Singh, Marco Bianchi, Arnab Pariari, Shubhankar Roy, Prabhat Mandal, Tanmoy Das, Philip Hofman, Aparna Chakraborti, Sudipta Roy Barman	Nature Communications	2041-1723
Analysis of a prey-predator model with prey refuge in infected prey and strong Allee effect in susceptible prey population	S. Saha, A. Maiti, G.P. Samanta	Discontinuity, Nonlinearity and Complexity	2164-6414
Enhanced photosensitivity of Mn-doped p-type SnS thin films	Pushan Banerjee	Academia Letters	2771-9359
Augmentation of stress mediated lifestyle diseases: the collateral damage of COVID-19 pandemic	Samaddar A, Chakraborty S, Basu BR	Science and Culture	0036-8156
Impact of thermally grown ZnS(1-x) Ox buffer layer over the photovoltaic performance of SnS/ZnS heterostructure	Pushan Banerjee	Materials Letters, Vol 320, Page 132347	0167-577X

## Research and Publication

Title of paper	Name of the author/s	Name of journal	ISSN No.
Transformation of Ambient CO <sub>2</sub> in Air into Cyclic Carbonates Mediated by a Phosphorus-Nitrogen PN3-Pincer Iron Complex	Li Yang, Priyanka Chakraborty, Pradip K. Das, Dongya Zhang, Kuo-Wei Huang	Green Synthesis and Catalysis	2666-5549
Conjunction of hard k-mean and fuzzy c-mean techniques in clustering and identifying some critical meteorological parameters for thunderstorm formation over a metro city of India during pre-monsoon season	Sweta Chakraborty, Sarbari Ghosh, Subrata Kumar Midya	Journal of Earth System Science	2347-4327
A Study on the Interrelationship of Musculoskeletal Symptoms with Job Demands and Job Content: A Cross-Sectional Study on Nurses	U. Chowdhury, T. Das, S. Mazumder, S. Gangopadhyay	Journal of Human Ergology	1884-3964
Vitamin D and pathophysiology of polycystic ovary syndrome: a case-control study	Basu BR, Chakraborty S, Samaddar A, Pal R, Saha SK, Das N	Journal of Diabetology	2543-3288
Developmental of pollen dyads in <i>Polypleurum munnarens</i> Nagendran & Arekal (Podostemaceae): Insights into the Plant's Reproductive Strategy	Remya Krishnan, Priyanka Khanduri, Rajesh Tandon	Flora	0367-2530
An in-silico pharmacophore-based molecular docking study to evaluate the inhibitory potentials of novel fungal triterpenoid Astrakurkurone analogues against a hypothetical mutated main protease of SARS-CoV-2 virus	Anish Nag, Adhiraj Dasgupta, Sutirtha Sengupta, Tapan Kumar Lai, Krishnendu Acharya	Computers in Biology and Medicine	0010-4825

## Research and Publication

Title of paper	Name of the author/s	Name of journal	ISSN No.
Records of Mantid Predators (Insecta: Mantodea) in an Eco-Restoration Site of Chennai, India	S. Guruswami, Parvati Chatterjee, T.K. Mukherjee	Proceedings of the Zoological Society	0974-6919
Diversity and Distribution of Ants (Hymenoptera: Formicidae) in Sunderbans, West Bengal, India	Damayanti Bakra, S. Sheela, Silanjan Bhattacharyya	International Journal of Zoological Investigations	
A simple Thermopower measurement model and related uncertainties	A. Jana. S. Mahakal, S. Sau, Diptasikha Das, K. Malik	Journal of Physics: Conference Series	1742-6596
Effects of partial substitution of Co by Ni on structural and transport properties of TiCoSb-based half-Heusler compound	S. Mahakal, Diptasikha Das, P. Singha, N. Rana, S. Mukherjee, A. Banerjee, K. Malik	Journal of Physics: Conference Series	1742-6596

**Books and chapters in edited volumes/books  
published and papers published in national/  
international conference proceedings**

<b>Name of Teacher</b>	<b>Title of the book/chapters published</b>
Priyanka Khanduri	Reproductive biology of angiosperms: concepts and laboratory methods
Debalina Banerjee	in Global Children's Literature in the College Classroom
Debalina Banerjee	Chapter 10: It's a Rainbow World,
Shymasree Basu	Chapter 16: Sustainable Eating and Wellness: Examining Nutrition Strategies in Barbara Kingsolver's Animal, Vegetable, Miracle: Our year of Seasonal Eating and Ruth Ozeki's A Year of Meats, In Covid-19 in India, Disease, Health and Culture: Can Welfare be far behind?
Damayanti Bakra	Abundance of Ants (Hymenoptera: Formicidae) during Pre-monsoon and Post-monsoon Seasons in the Mangrove Patches of Indian Sundarbans.
Madhusudan Saha	Benche Thakar Sonkot Ttheke Uttoron Prosongo 'Chand Boniker Pala' in Bangla Natok Oitijhyo o Uttoradhikar
Madhusudan Saha	Mach o Manush' Dwondo Theke Sondhi
Srinwanti Mukhopadhyay	An Effeminate Bengali: A construct of the colonial Rule, in Eshana 2
Srinwanti Mukhopadhyay	Looking Beyond Home: Re-evaluating the paradigm shift in the neo-Marwari community, in Empowering Women: Reflections and Trajectories

## Research Projects

Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Name of the Funding Agency
Nanostructuring and composite half Heusler alloy: an emerging route for mid-temperature	Dr. Kartick Malik (PI)	Physics	Science and Engineering Research Board, India
Functionality of half metallicity in half-Huesler full-Huesler composite: impact on structural and thermoelectric power generation	Dr. Shubhankar Roy (PI) & Dr. Kartick Malik (Co-PI)	Physics	UGC-DAE CSR, Mumbai centre

## Guidance for competitive examinations and career counselling offered by the institution

- Tata Consultancy Services Training and employability program
- Exploring Career options with Brainware University
- Managing Career Choices in VUCA World with Pune Institute of Business Management
- Raising Investment Awareness among the young minds
- Seminar on Reimagining Future Accountants
- Seminar on Green entrepreneurship and sustainable development
- Certificate Course on Mushroom Cultivation

## Capacity development and skills enhancement activities

Name of the capacity development and skills enhancement program	Name of the agencies/experts involved with contact details (if any)
<b>Life Skills:</b> Harnessing the Power of the Mind: Interactive session with students on Mental wellbeing and Academic Excellence on 02-01-2023	Mr. Arup Ghosh, Consultant Hypnotherapist and life Coach (82405 73904)
<b>Life Skills:</b> Workshop on IQ, SQ, EQ on 04-01-2023	Brahmakumaris, Kankurgachi Kolkata
<b>Life Skills:</b> Harnessing the Power of the Mind: Workshop on mental Health and Wellbeing on 16-01-2023	Mr. Arup Ghosh, Consultant Hypnotherapist and life Coach (82405 73904)
<b>Life Skills:</b> One on one counselling sessions for students requiring help from January 2023 to March 2023	Mr. Arup Ghosh, Consultant Hypnotherapist and life Coach (82405 73904)
<b>Communication skills/ soft skills:</b> Tata Consultancy Services 100 hour Training program from 09/02/2023 to 23/02/2023	Tata Consultancy Services
<b>ICT/computing skills:</b> Session on graphic design through Canva on 30-07-2022	Ms Pritha Banerjee
<b>ICT/computing skills:</b> Lecture on Quantum Intelligence on 26-09-2022	Prof. Amlan Chakraborty (Director, A. K. Choudhury School of Information Technology, University of Calcutta)

## Sports and cultural events/competitions in which students of the Institution participated

Name of the event/activity	Organizer
Independence Day Celebration – 15/08/2022	Student's Activity Sub-Committee
Copa Nationale (Futsal Tournament) by CNMC – 31/08/2022 – 02/09/2022	Calcutta National Medical College, Park Circus
Teacher's Day Celebration – 05/09/2022	Student's Activity Sub-Committee and Academic Departments
75th Senior National Aquatic Championships - 2021- 06/09/2022- 10/09/2022	Swimming Federation of India
Inter- Collegiate Football Tournament – 14/09/2022	Calcutta University
Inter-Collegiate Kabbadi (Men) Tournament, Calcutta University – 16/09/2022	Calcutta University
Founder's Day Singing Competition - 23/09/2022	Student's Activity Sub-Committee
Founder's Day Dance Competition - 23/09/2022	Student's Activity Sub-Committee
Founder's Day Debate Competition - 23/09/2022	Student's Activity Sub-Committee
Founder's Day Photography Competition - 23/09/2022	Student's Activity Sub-Committee
Founder's Day Program - 26/09/2022	Student's Activity Sub-Committee
Football Tournament at Reliance Cup – 29/09/2022	Reliance Foundation
Wall magazine named 'Anuranan' – 10/11/2022	Department of Bengali
Student debate: Impact of Bureaucracy on Organization – 01/12/2022	Department of Sociology
Cricket Tournament by Vidyasagar College, University of Calcutta – 08/12/2022	Vidyasagar College
Student's Week Essay Competition – 06/01/2023	Student's Activity Sub-Committee

**Sports and cultural events/competitions in which  
students of the Institution participated**

<b>Name of the event/activity</b>	<b>Organizer</b>
Republic Day and Saraswati Puja – 26/01/2023	Student's Activity Sub-Committee
North Kolkata District Football Tournament at Inter College Sports and Games Championship, 2022-23, – 12/02/2023 – 14/02/2023	Gurudas College
North Kolkata District Athletic games at Inter College Sports and Games Championship, 2022-23, - 12/02/2023 – 14/02/2023	Gurudas College
International Mother Language Day - 21/02/2023	Student's Activity Sub-Committee and Department of Bengali
4th State Pencak Silat Championship/ Tanding - 17/06/2023 -18/06/2023	Pencak Sports Association, Bengal
4th State Pencak Silat Championship/ Ganda - 17/06/2023 -18/06/2023	Pencak Sports Association, Bengal
Lokogeeti Competition (Student Health Home)- 23/06/2023	Student Health Home
Debate Competition (Student Health Home) - 23/06/2023	Student Health Home

### MoU signed with other institutions

Sl.No.	College Name	Date	Tenure (Years)
1	BHANGAR MAHAVIDYALAYA	08.06.2023	5
2	NETAJI NAGAR COLLEGE FOR WOMEN	18.05.2023	5
3	SUSHIL KAR COLLEGE	16.06.2023	3
4	CITTARANJAN COLLEGE	19.06.2023	3
5	JIBANTALA ROKEYA MAHAVIDYALAYA CANNING - II	26.05.2023	5
6	CHARUCHANDRA COLLEGE	25.05.2023	5
7	NATIONAL VOCATIONAL ACADEMY OF INDIA	19.06.2023	5
8	DUMDUM MOTIJHEEL COLLEGE	26.05.2023	5
9	DUMDUM MOTIJHEEL RABINDRA MAHAVIDYALAYA	10.06.2023	5
10	VIDYASAGAR COLLEGE FOR WOMEN	22.12.2022	3
11	SAVIOURS & FRIEND OF ENVIRONMENT (SAFE)	06.06.2023	3

### Awards received by faculty members

- Outstanding paper award for Dr. Priyanka Khanduri in 2th Regional Science and Technology Congress, 2022-23, organised by Maulana Azar College and DST, GoWB, during 4-5 January, 2023.
- D. Litt. for Dr. Sanjoy Pramanick from Ranchi University in 2023.

### Student of the Year 2022-23

- AKM Asifurzaman, Student of B.A General Course award given for overall performance of the student during his/her course of study in the college.