



NEWSLETTER

DEPARTMENT OF MATHEMATICS

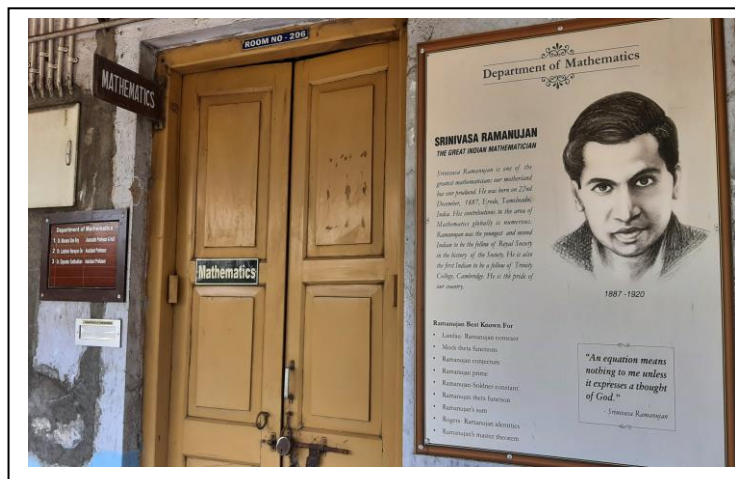
**HALDIA GOVERNMENT
COLLEGE**

**HALDIA, PURBA
MEDINIPUR**

DEPARTMENT OF MATHEMATICS

❖ INTRODUCTION

Mathematics is at the heart of science and our daily lives. Mathematics is the science that deals with the logic of shape, quantity and arrangement. Math is all around us, in everything we do.



Department of Mathematics

Mathematics makes our life orderly and prevents chaos. Certain qualities that are nurtured by mathematics are the power of reasoning, creativity, abstract or spatial thinking, critical thinking, problem-solving ability, and even effective communication skills. Mathematics is essential for understanding other sciences like physics, chemistry, biology, and engineering. It is the building block for everything in our daily lives.




❖ OVERVIEW OF THE DEPARTMENT

- The department of Mathematics was established in 1988, since the beginning of the college. The B.Sc. Honours course starts from the very beginning.
- Names of Programmes/Courses offered: **Under graduate Course**
- Currently, two programmes are running simultaneously: CBCS and CCFUP-NEP
 - i) 3 years B.Sc Honours and B.Sc General (under CBCS system)
 - ii) 4 years B.Sc Honours (with research) and 3 years B.Sc Multidisciplinary Programme as per CCUFUP, NEP-2020 from the Academic Session-2023-24.
- Under both the systems, the students have to take General Elective (Under CBCS) or Minor courses (under CCFUP-NEP 2020) from other subjects. So, the department offers Mathematics (G.E. / Minor courses) for the students of other science departments as per University guidelines.
- Students of Mathematics department study Physics and Statistics/ Chemistry as their G.E /Minor course.
- Research Centre/facility recognized by the Vidyasagar University: Inspection has been completed by the expert committee to open as a research Centre.
- Students receives scholarships OASIS, Kanyashree Prakalpa and SVMCM etc.

❖ NUMBER OF TEACHING POSTS (FULL TIME)

Post	Sanctioned	Filled	Year
Assistant Professors	4		
		3	2018-19
		3	2019-20
		3	2020-21
		3	2021-22
		3	2022-23
		3	2023-24

❖ FACULTY PROFILE

Name	Designation	Qualification	Specialization	Teaching Experience	Publications	Others
Dr. Monami Das Roy 	Associate Professor & Head	M.Sc., PhD	Production Planning, Inventory Control, Optimization, Supply Chain Systems	18 years (UG) 8 years (PG)	18 (14 Scopus)	One Book Chapter One UGC minor research project completed
Dr. Lakshmi Narayan De 	Assistant Professor	M.Sc., PhD	Operations Research, Inventory Control	17 years(UG)	7 (Scopus)	
Dr. Dipankar Sadhukhan 	Assistant Professor	M.Sc., PhD	Mathematical Ecology	16 years(UG)	11 (4 Scopus)	One ongoing UGC minor research project

❖ DEPARTMENTAL FACILITIES

➤ *Departmental Seminar Library*



- Library:** (i) Number of books in the Seminar Library: **807** (Text books: 421 approx. and Ref.: 386 approx.)
(ii) A significant number of books are available in the Central Library.
(iii) Facility for accessing e-books and e-journals through **INFLIBNET-NLIST**

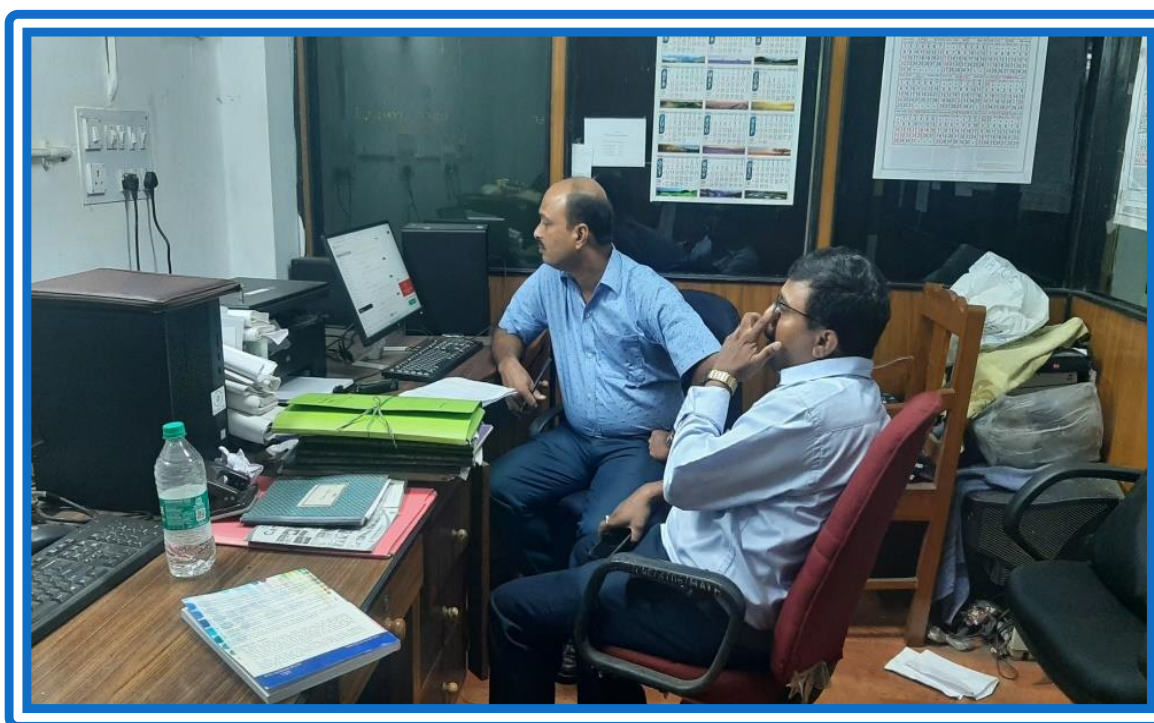
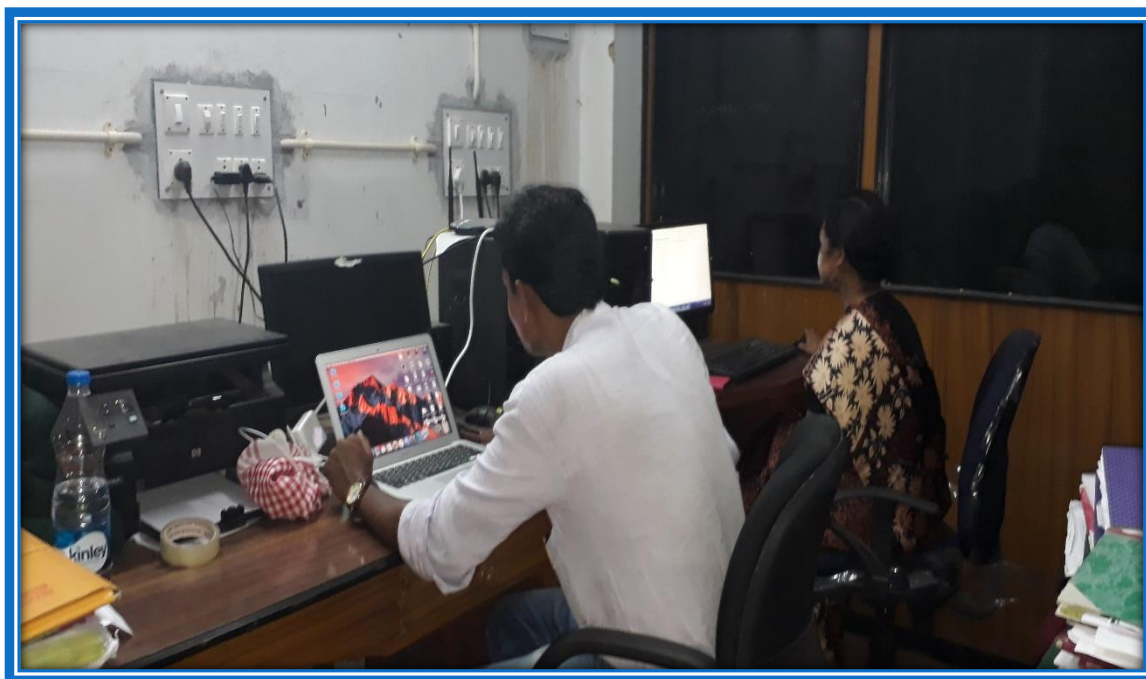
➤ *Computer Laboratory for students*



Computer Lab for students

There is a well-equipped computer lab with **8 Desktop computers** and a **multi-function printer** for the students.

➤ *Computer Lab For Teachers*



Computer Lab for Teachers

There is also a well-equipped computer lab with **3 Desktop computers, 2 multi-function printers, and a Laser Jet printer** for the teachers. The departmental lab also **has internet and LAN facilities.**

❖ TEACHING METHODS AND INNOVATIONS

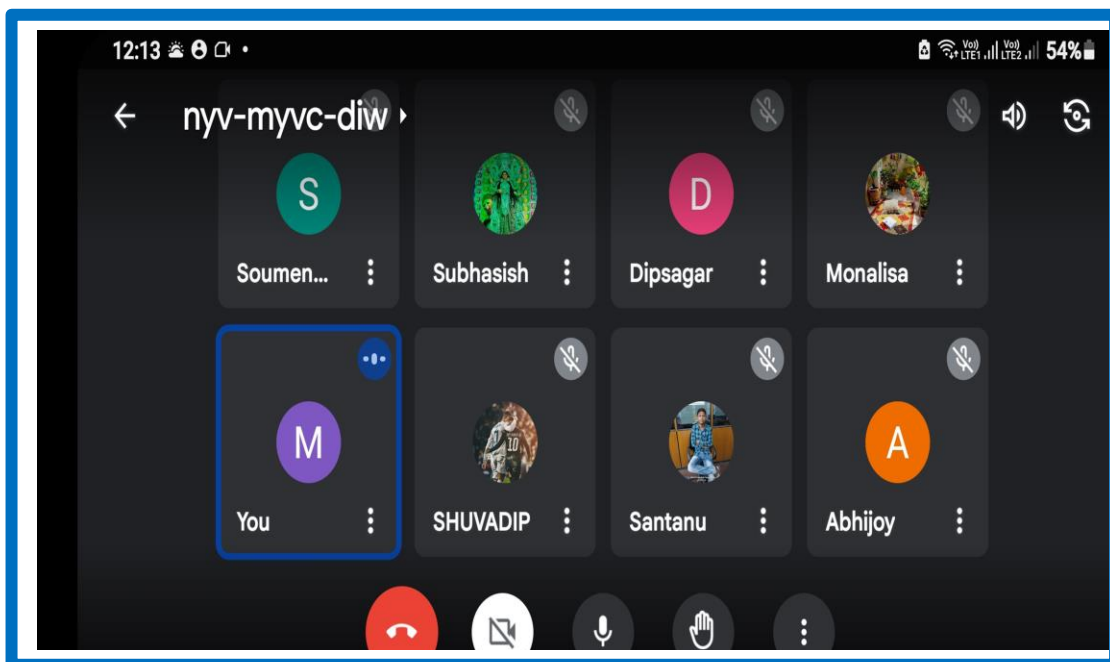
- The department boosts student centric teaching-learning practice with dynamic participation of students and teachers.
- As most of the students come from Vernacular medium background and they have to shift to studying in English, they initially face problems in understanding and specially writing in English. The teachers teach in a mixed medium so that they can easily grasp the concepts. To overcome this problem, the students are referred different books on the same topic written in different style and they are to go through those. They are also to write questions and answers in the class after one topic is over to conquer their fear of studying in English.
- The teaching methods and innovations used to teach students are:
 - Traditional blackboard teaching
 - ICT-enabled classroom teaching
 - Hybrid mode of teaching
 - Students' seminars
 - Quiz contests
 - Value added courses



Traditional blackboard teaching



ICT-enabled classroom teaching

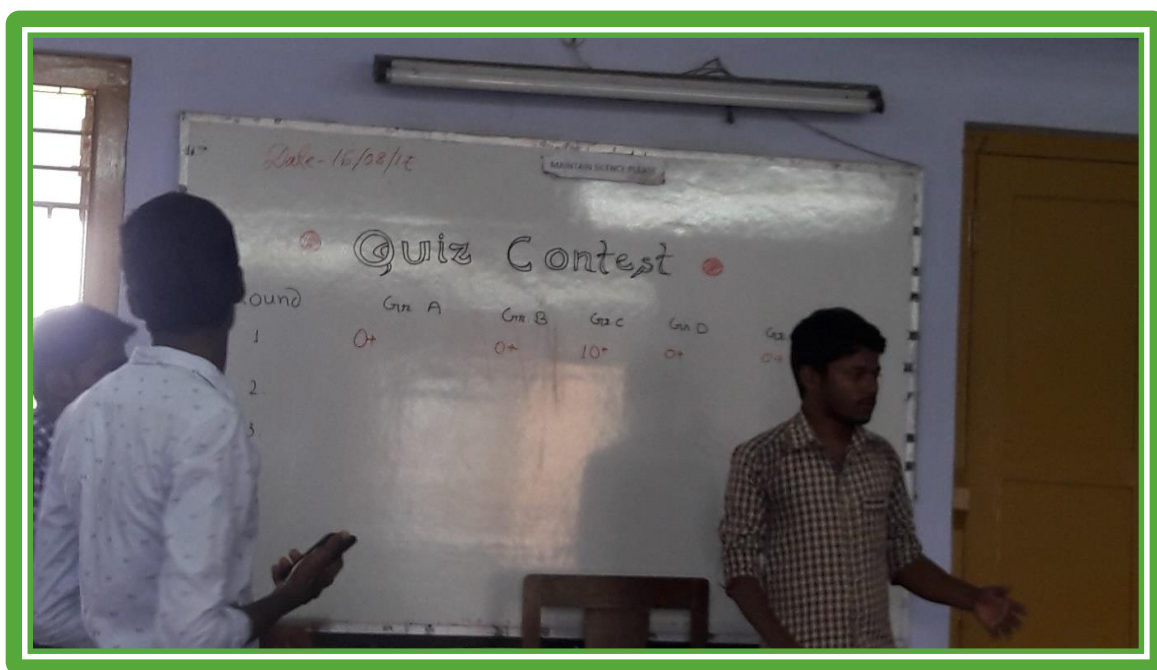


Online teaching



Students' Seminars

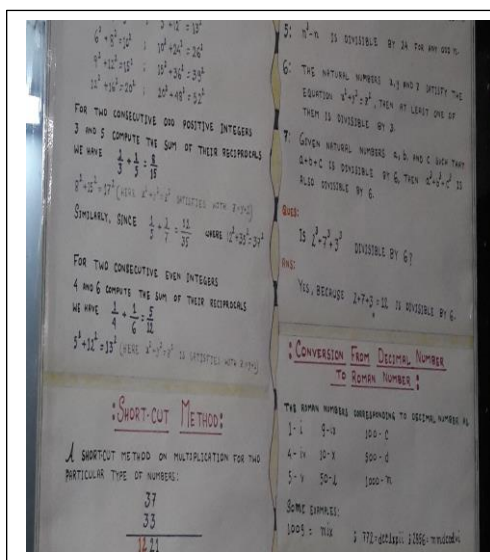
- The department organizes a number of students' seminars to encourage and motivate the students to deliver lectures and face questionnaires



Quiz contest

❖ EDUCATIONAL AIDS FOR STUDENTS

- Study materials and model questions are available in the department.
- The faculty members have developed question banks for the honours candidates. University question papers and college examination question papers are also available.
- We take care of both types of students: slow learners and advanced learners.
- In Choice Based Credit System (C.B.C.S), students have opportunities of studying different inter-departmental/disciplinary subjects which are helpful for their future career and job selection.
- Under the CCFUP-NEP,2020 new syllabus, students will study different inter-departmental/disciplinary subjects which are helpful for their future career and job selection. Apart from these, they will learn different multidisciplinary courses (MDC) like Sports and fitness, NGO & its Operations, Gender Studies, Community nutrition and Public health, Natural Resource Management and value added Courses (VAC) like Environment Studies (ENVS), Human Rights, Human Rights, Disaster Management for their holistic education. Also, the Skill enhancement courses (SEC) to strengthen the academic potential of the student.
- Every year, the department encourages the students to prepare a wall magazine to motivate them to increase their individual thoughts as well as their group activity.



Wall magazine



Wall magazine

❖ TEACHING -LEARNING OUTCOME

- ***Student-teacher meeting :*** Department conducts student-teacher and parent-teacher meetings each semester and collect student feedback from final-semester students.



Student-teacher meeting

- ***Departmental Programme Assessment Committee (PAC) meeting :*** The department has formed Programme Assessment Committee (PAC) involving the Officer in Charge, the IQAC coordinator and the teachers of the department to assess the outcome of the honours programme. PAC meets once a year and the weaknesses and strengths of the department and the students are discussed.

The feedback forms submitted by the students are analyzed. Also, the students can freely voice their grievances regarding curriculum/ facilities in the college etc. These are discussed in the PAC to find the possible way out.

➤ *Parent teachers meeting (ptm):*

Regular Parent-Teachers Meeting are conducted by the department in order to share the views of both guardians and teachers at the beginning of each semester on their expectations about the students, any difficulties the students may face, their weaknesses and the way out. Sometimes the presence of our honorable principal and IQAC Coordinator graces the occasion. Some of the glimpse are presented below:

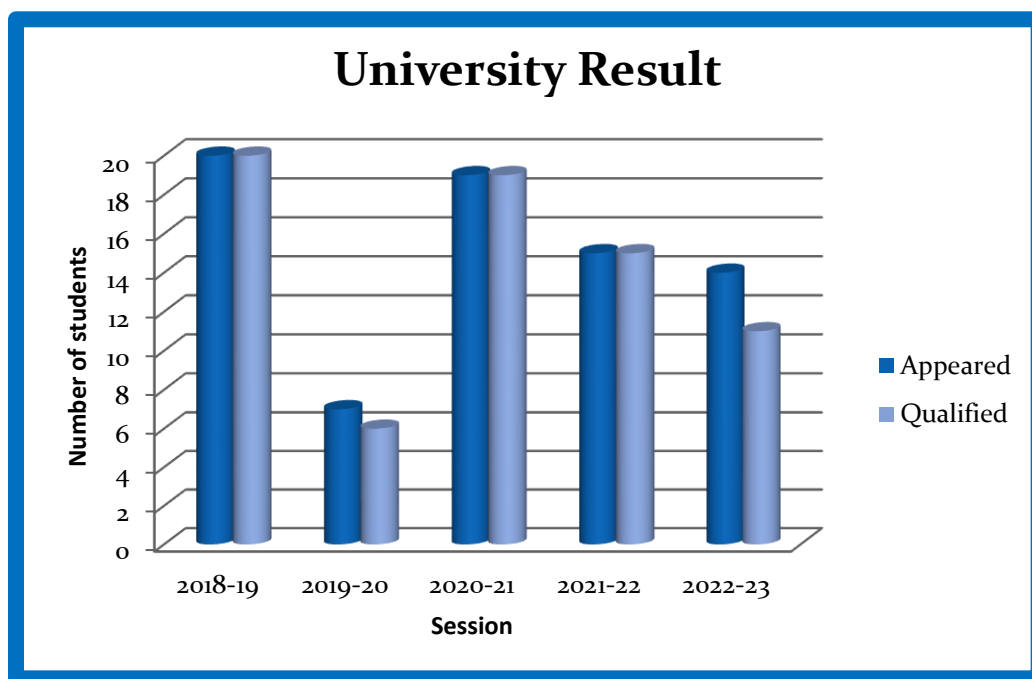


Parent- teachers meeting

❖ STUDENTS' RESULT

University Result

Session	Appeared	Qualified
2018-19	20	20
2019-20	07	06
2020-21	19	19
2021-22	15	15
2022-23	14	11



Graphical representation of University result

❖ EXTRA-CURRICULAR ACTIVITIES OF THE STUDENTS

The department always encourages the students to take part in different institutional and state level activities. The students and teachers of this department enthusiastically participate in different activities such as:

- Seminars organized by NSS, Women Cell,
- Youth Parliament Programme
- College Sports and Cultural Programme
- Essay /debate/ slogan/quiz Competition

Some glimpses are attached herewith:



Teachers' day celebration



Fresher's welcome



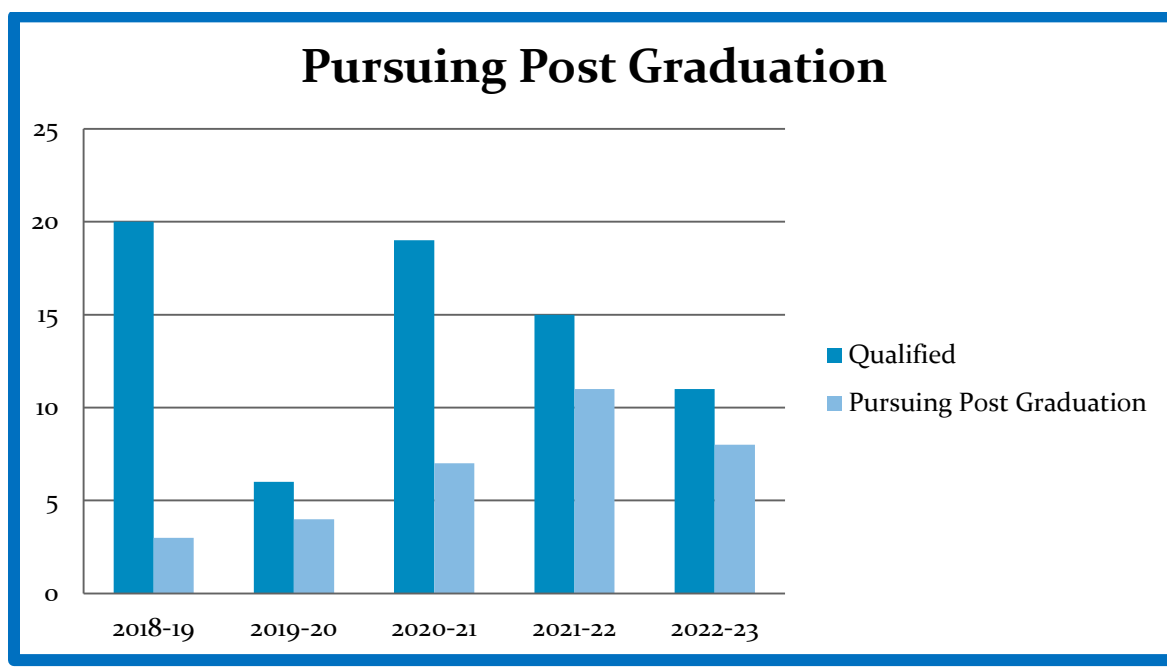
Students' farewell



Chess competition

❖ STUDENTS PROGRESS

Session	Qualified	Pursuing Post Graduation
2018-19	20	03
2019-20	06	04
2020-21	19	07
2021-22	15	11
2022-23	11	08



Graphical representation of Student Progress

❖ EX-STUDENTS PROGRESS



Join West Bengal police



Pursuing Integrated M.Sc. in IIT Kharagpur

❖ BEST PRACTICES OF THE DEPARTMENT

- The department conducts classes in hybrid mode.
- The department conducts special classes for the students who sit for JAM and other competitive examinations
- Several students' seminars, quiz competitions, and group discussion sessions are organized to improve students confidence levels and spoken English proficiency.

❖ CAREER OPPORTUNITIES AS A STUDENT OF MATHEMATICS

Students of Mathematics Department has the opportunity of job opportunities both at private sector and public sector, such as

- Teaching (School, College and University level)
- Job in Management sector
- Job opportunities in banking sector
- Administrative jobs in public sector
- Software job in corporate sector
- West Bengal Civil Service (W.B.C.S.) and Indian Administrative Service (IAS)

❖ STRENGTH

- The student-teacher relationship is very good.
- The interaction between students and teachers takes place in a homely environment in this department.
- We try to make our students academically sound and encourage them to pursue higher studies.
- Students are encouraged to take part in short-term courses in Mathematics in different Mathematical Schools, to appear at IIT JAM, to apply for any other competitive examination, and also to apply to the research institute.
- The students are always bestowed about different real-life problems along with the theoretic ideas to adapt themselves to the job market.
- The department plays an important role in major college committees.
- The faculties serve as paper setters, examiners (Both Internal as well as External) and moderators of Vidyasagar University.

❖ WEAKNESS

- Students are from different backgrounds. Some of them are first-generation learners of mathematics. Some of them also have poor financial conditions. So, it becomes difficult to inculcate mathematical discipline in them as they do not have a basic support system at home.
- If all the vacant teaching posts are filled, then we can take better care of our students.
- We do not have access to good mathematical Journals, as no financial support is available for good journals.
- The department has a seminar library with its small capacity but does not have a proper reading room.
- Department is also underequipped with modern software and ICT tools.

❖ FUTURE PLANS

The department looks forward to organize the following programs:

- Workshops on Recent Advances in Mathematics.
- Job-related workshop for the students of Mathematics Honours:
- First course of computer handling and programming in different languages.
- Guidance for the SSC examination.
- National-level UGC-sponsored seminars.
- Development of a computer laboratory.
- Enrichment of the departmental Seminar Library.