

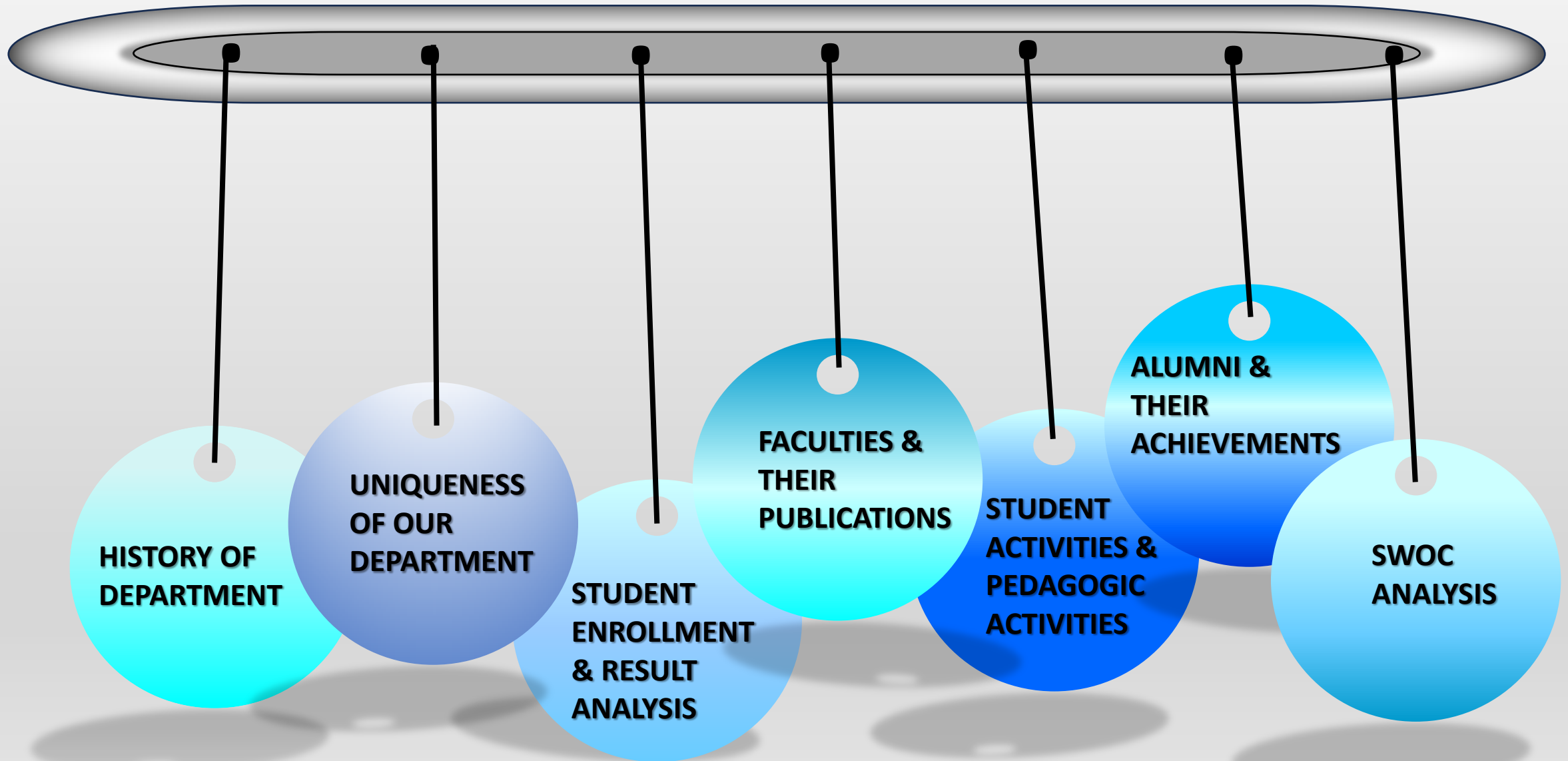


DEPARTMENT OF MATHEMATICS



**BHARATI COLLEGE
UNIVERSITY OF DELHI**

CONTENT





DEPARTMENT OF MATHEMATICS

(2013-TILL DATE)



- **The Department was established in 2013 with 40 sanctioned seats.**
- **In 2014-2015, the course was rolled back during FYUP.**
- **In 2017, the Department of Mathematics was re-established.**
- **Over the years our department has grown significantly – in terms of student enrollment, faculties joined and academic zeal.**

FACULTIES AT PRESENT

DEPARTMENT OF MATHEMATICS

TEACHER-IN-CHARGE

Dr. ARUNA JAIN



Dr. Ankit Gupta



Ms. Pooja Khoda



Dr. Anubha Bhargava

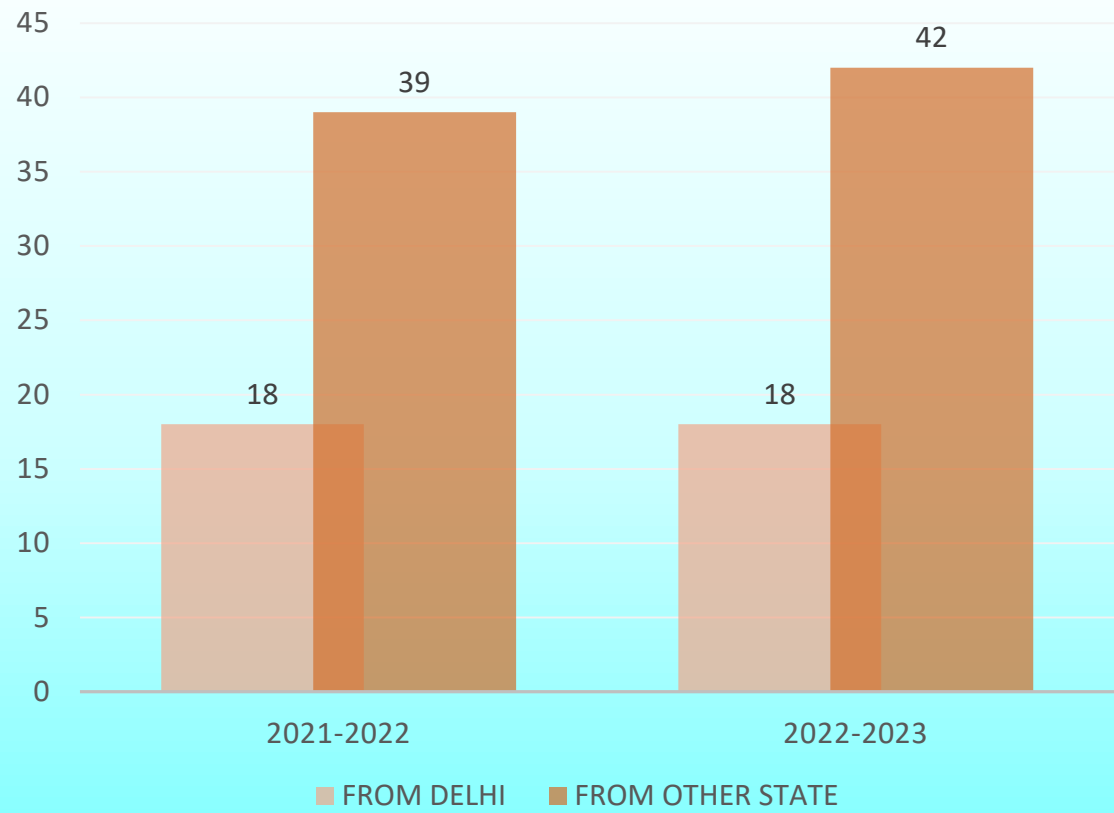


Dr. Meenakshi Gupta



FACULTIES	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF JOURNALS	NO. OF BOOK/CHAPTERS
Dr. ANUBHA BHARGAVA	Ph.D	ASSISTANT PROFESSOR	TOPOLOGY	1	0
Dr. ANKIT GUPTA	Ph.D	ASSISTANT PROFESSOR	TOPOLOGY	10	9
Dr. MEENAKSHI GUPTA	Ph.D	ASSISTANT PROFESSOR	OPTIMIZATION THEORY	1	0
Dr. POOJA KHODA	M.Phil.	ASSISTANT PROFESSOR	NONLINEAR DYNAMICAL SYSTEM		

STUDENT ENROLLEMENT

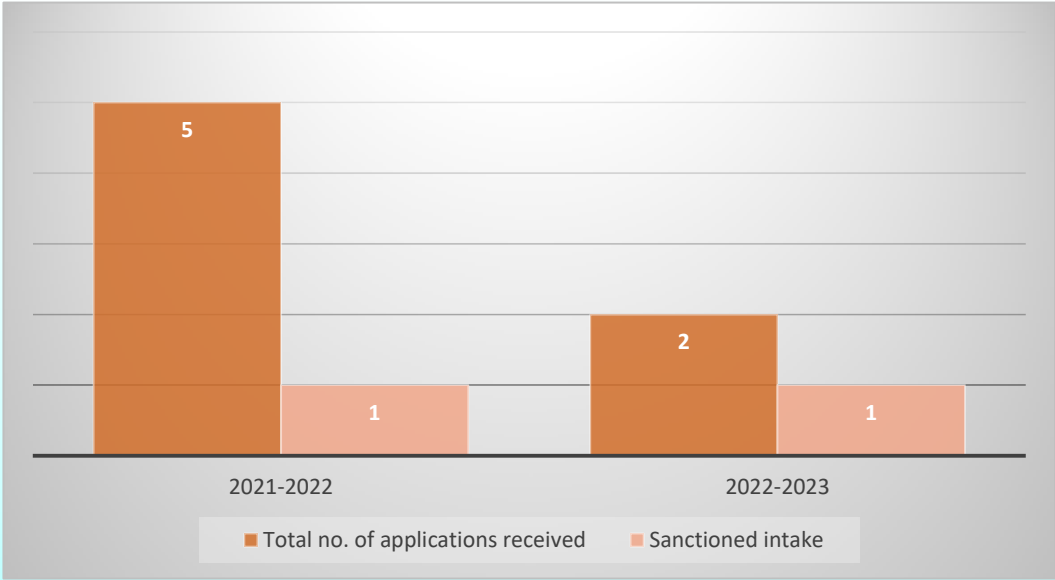


DIVERSITY OF STUDENTS

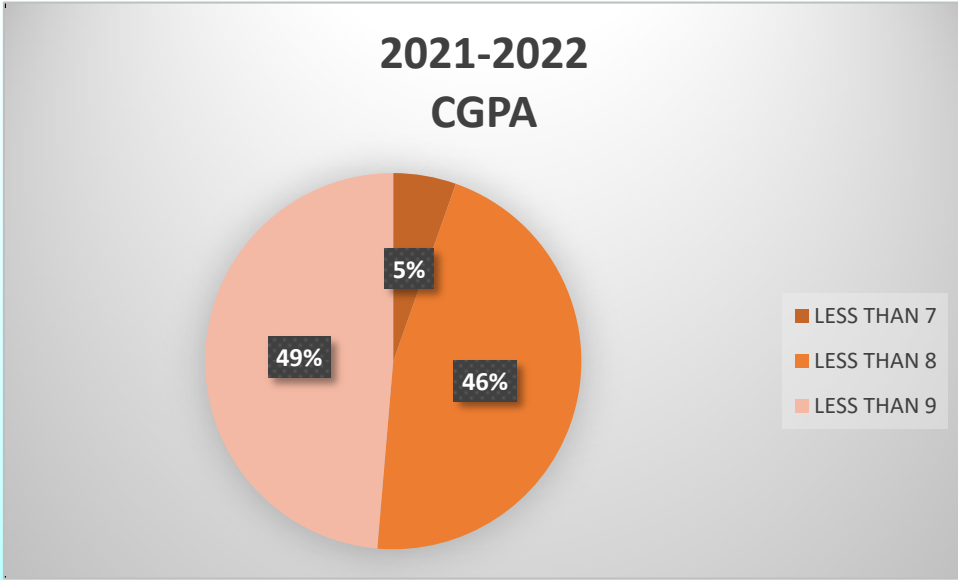
-STUDENTS FROM DIFFERENT REGIONS ACROSS DIFFERENT INDIAN STATES ENROLL IN MATHEMATICS HONOURS

YEAR	FROM DELHI	FROM OTHER STATES	TOTAL
2021-2022	18	39	57
2022-2023	18	42	60

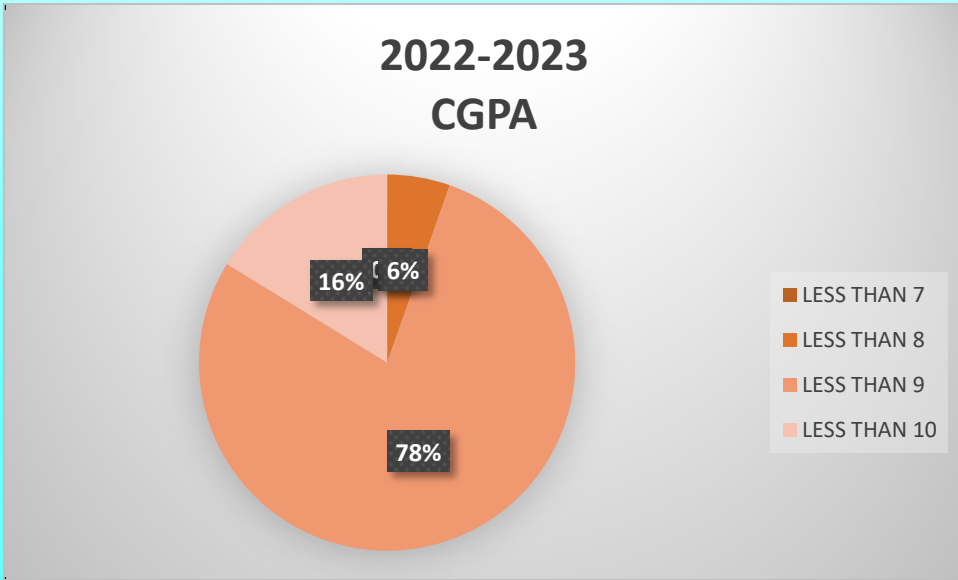
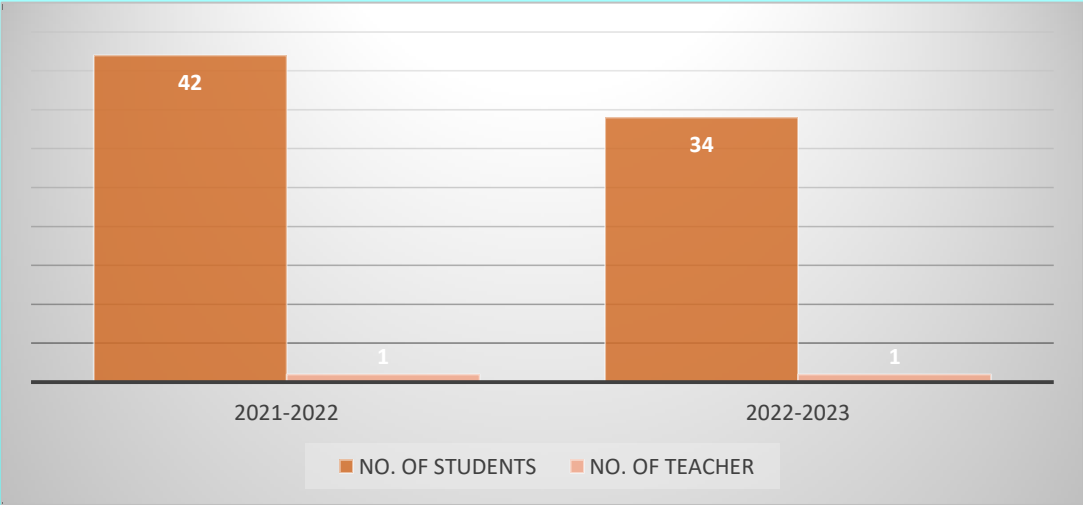
DEMAND RATIO



RESULT ANALYSIS



STUDENT-TEACHER RATIO





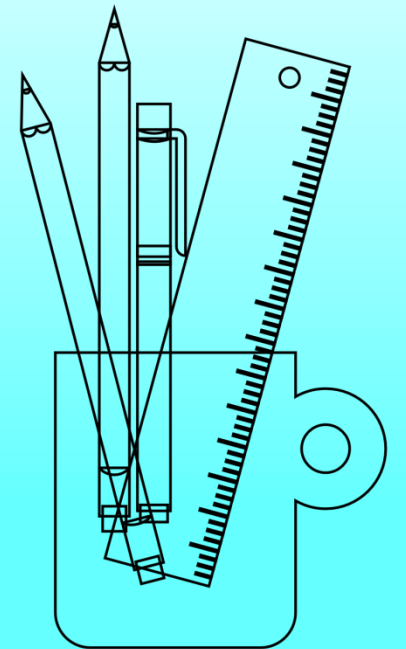
THE EXPONENTS (SOCIETY OF MATHEMATICS)

HISTORY OF DEPARTMENT

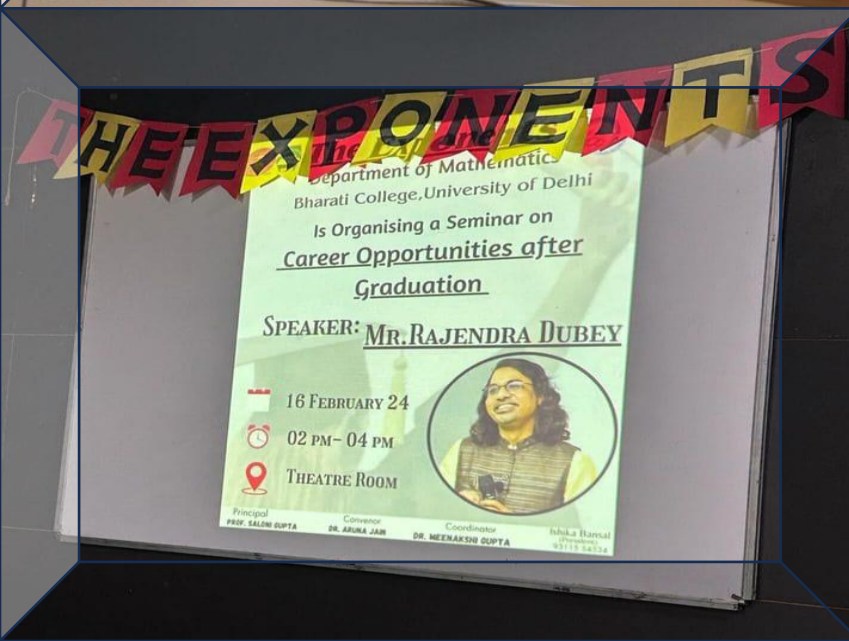
- ☐ The exponents was formed in 2017.
- ☐ The name was decided collectively to convey exponential growth.
- ☐ The society aims towards the welfare of mathematics students by bringing in an even handed pool of opportunities.
- ☐ The logo design was an inspiration from a logo making competition that the department conducted.

LONG TERM GOALS

- ☐ Make discipline specific placement cell.
- ☐ Career counseling sessions.
- ☐ Raising adequate funds for the society.

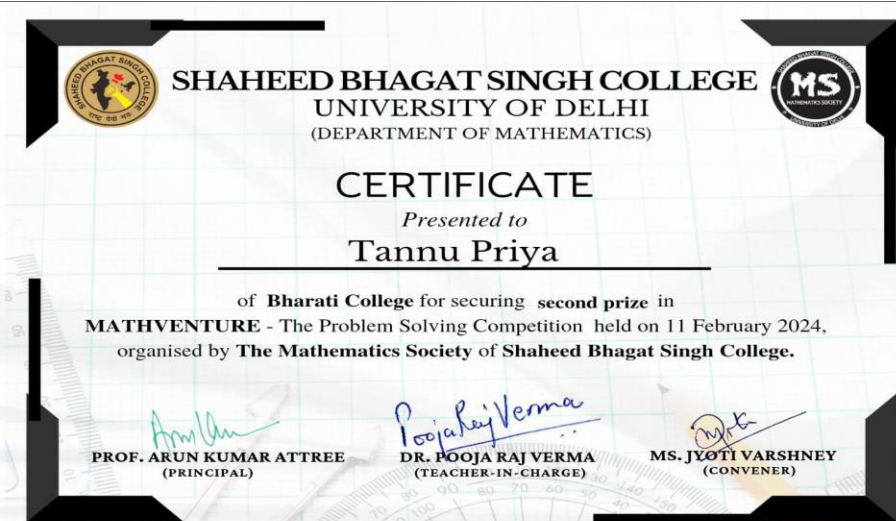


STUDENT ACTIVITIES



S.NO.	NAME OF THE EVENT	DETAILS OF THE EVENT
1	Webinar on Data Analytics	A webinar session was conducted by the Dept. of mathematics on Data Analytics. It contains 2 days lectures of 1 hr each. Certificates were given to all attendees.
2	Webinar on Health and Nutrition	An interactive webinar session on health and nutrition was conducted by the Dept. of Mathematics in collaboration with Dept. of Computer Science.
3	Women of worth(3 days workshop on overall development of students)	A 3 days workshop was conducted by the Dept. of Mathematics for the Overall Development of Students. Certificates were given to the attendees.
4	Movie screening “ROCKTERY: The nambi”	This movie is about Nambi Narayanan's life which was full of struggles and accomplishments as an aerospace engineer. The movie motivated students about life struggles and the way to deal with it .
5	Quiz and Dance competition	This event was organized on the occasion of Republic Day Quiz related to Republic Day was held. Folk dances were performed by different participants .
6	Poster making competition	Poster making competition was organized on the theme "Say No To Terrorism" . Students anticipatedly participated.
7	Dance and Skit competition	On the eve of 76th Independence day Skit and Dance Competition was organized.
8	One day trip to adventure island	
9	Seminar on Vedic Mathematics	The Vedic Mathematics Seminar, held on 25th October 2023, brought together mathematics enthusiasts and educators to explore the ancient Indian system of mathematics, known as Vedic Mathematics.
10	Seminar on Career opportunities after graduation	The seminar conducted by Mr. Rajendra Dubey, Director of DIPS Academy, aimed to enlighten attendees about the diverse career options available to mathematics graduates.
11	Seminar on women in Mathematics and Cryptography	The seminar conducted by Prof. Geetha Venkatraman on the topic Women in Mathematics and Cryptography aimed to inform students about the achievements and milestones women have reached in the field of mathematics,

CERTIFICATES OF STUDENTS



DEPARTMENT'S SOCIAL RESPONSIBILITY

Initiative Of Department Of Mathematics Under IQAC

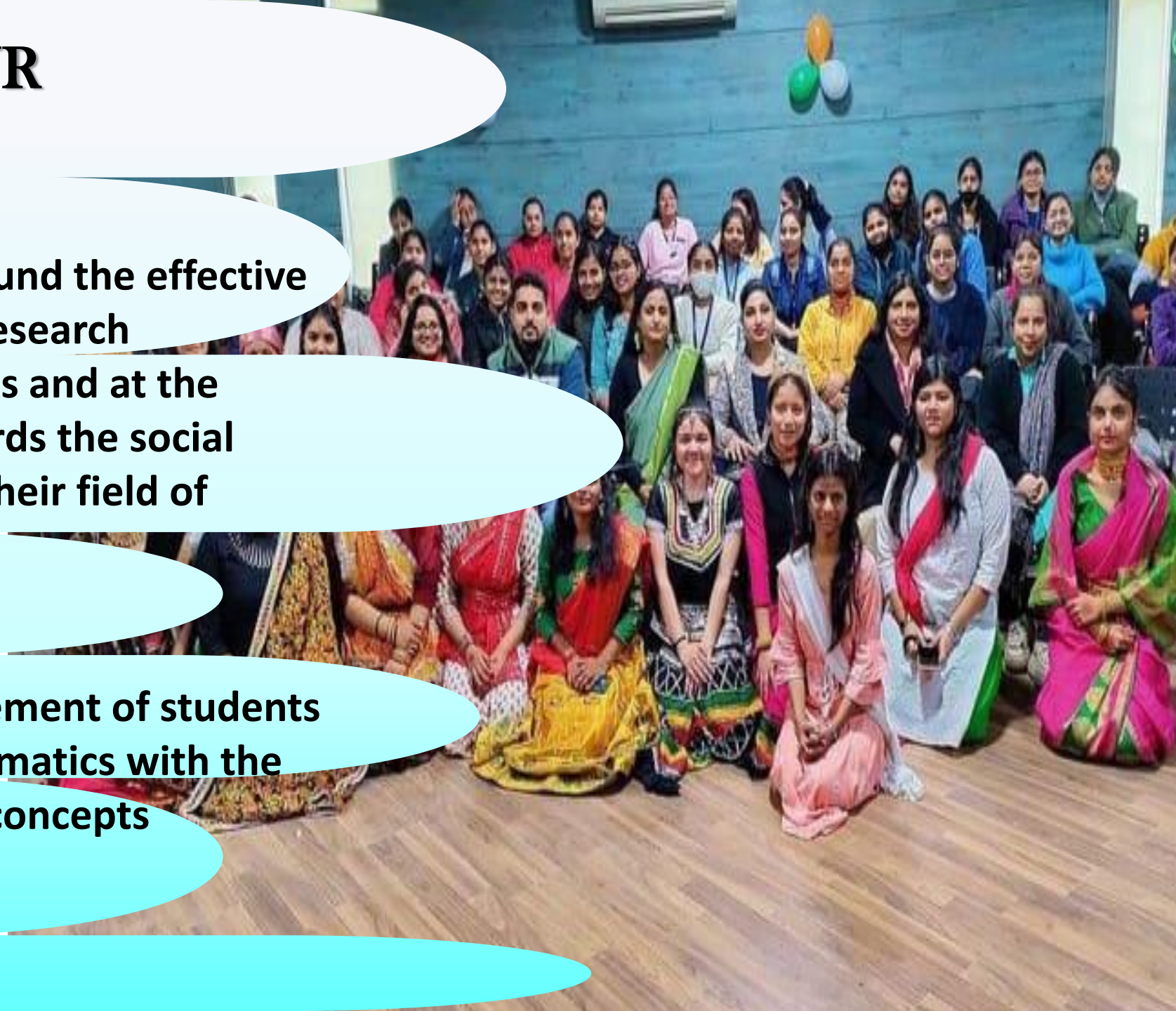


- Academic Support Cell was established in 2017 as a joint effort of students of B.Sc.(Honours)Mathematics and B . A. Program, Bharati college.
- Our students teach mathematics to fellow students from diverse academic backgrounds, thereby addressing the needs of those with limited or no prior exposure to the subject providing an upper hand in getting through competitive exams.
- It fulfills the department's commitment to social responsibility by extending academic support to students outside the mathematics discipline.

LINK FOR YOUTUBE CHANNEL: <https://www.youtube.com/@ekstepforfuture9715>

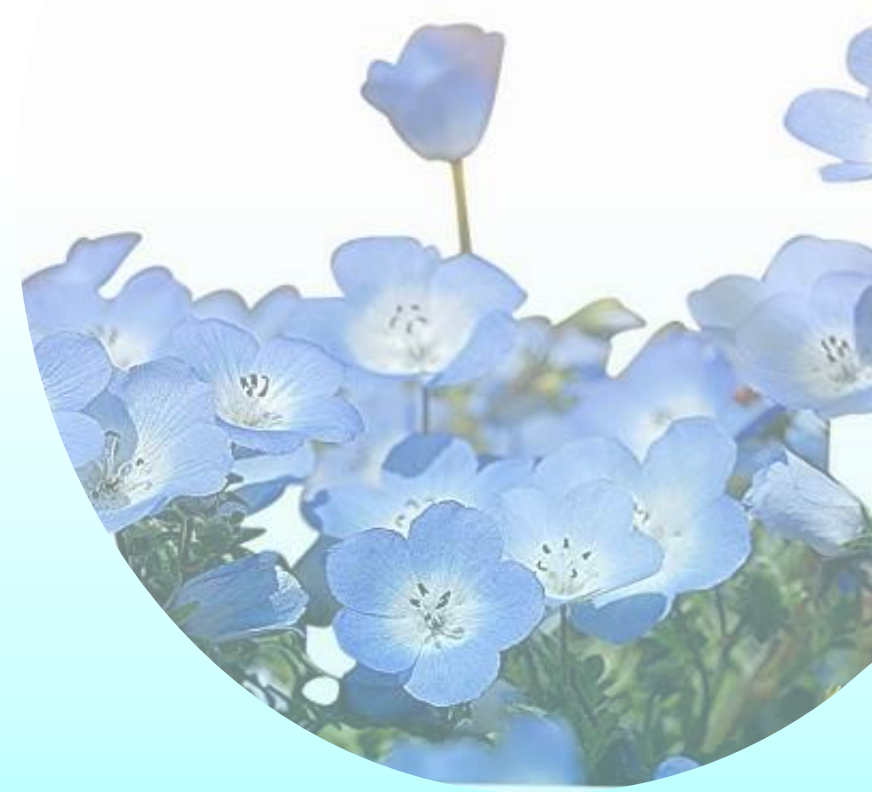
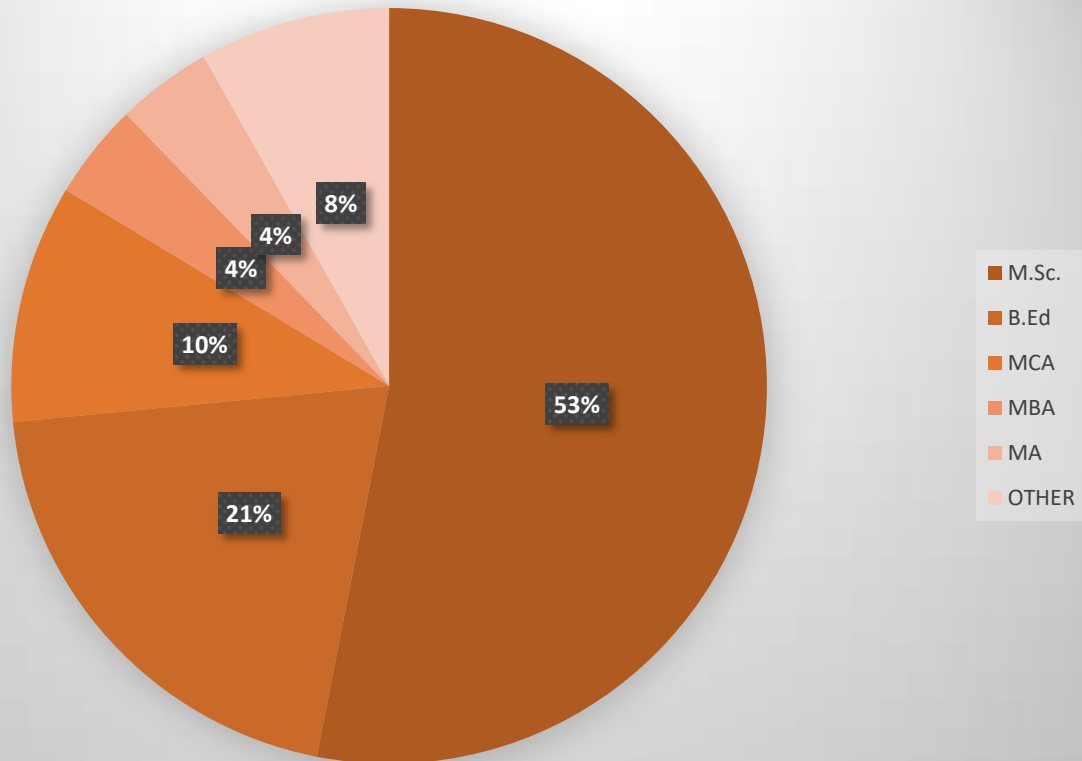
UNIQUENESS OF OUR DEPARTMENT

- Our department revolves around the effective teaching pedagogy creating research environment, developing skills and at the same time contributing towards the social responsibility of students in their field of expertise.
- Academic fests and seminars are organised for better engagement of students so that they can connect mathematics with the real world and understand the concepts thoroughly.



ALUMNI

STUDENTS PURSUING FOLLOWING COURSES AFTER GRADUATION:-



- Most of the students opt for masters in mathematics after completing their bachelor of mathematics.
- Few students also opted for B.Ed , MCA and MA and many different courses.



- **Embarking on a journey the confines of time, we are intricately woven into the vibrant tapestry of our department's alumni network.**
- **Bound by shared experiences and fueled by a collective passion for growth and success, this connection to our alma mater's esteemed graduates serves as a beacon of inspiration and opportunities.**
- **Dr. Anubha Bhargava keeps in touch with the alumni through WhatsApp and other social media platforms.**
- **It serves as a fertile ground for professional collaboration and networking, facilitating partnerships and opportunities that propel careers to new heights.**

MESSAGES FROM ALUMNI

First and foremost, I want to express my gratitude for the incredible education and opportunities that it provided me. I would like to commend faculty of department of Mathematics for their dedication and excellence in teaching and commitment to students. I appreciate the strong sense of community fostered by the college.

Regards

Nikunj Singh(2020-2023)

"As a proud alumna of the BSc Mathematics program, I am grateful for the rigorous education and invaluable mentorship that shaped my analytical skills and problem-solving abilities. My time at Bharati College not only prepared me for a successful career but also fostered a deep appreciation for the beauty and universality of mathematics. Here's to the countless equations solved, friendships formed, and memories made at our alma mater."

Dimple(2013-2016)

"To the department, where equations come to life and challenges turn into triumphs ". Together, we have paved the way for excellence where dedication and a love for numbers drive us towards success in our very own mathematics department .Being an Ex President to Exponents Society ,am glad to share that every student is encouraged to push boundaries and reach new heights here.

-Kashish Gupta

(Ex President of Exponents)
(2019-2022)

The journey of 3 years had been a cakewalk only because of the full support of my teachers. The college and department in particular has always been helpful and encouraging. I would also like to thank my teachers for believing in me and providing me with an opportunity to be a part of "THE EXPONENTS," the society of mathematics. Working for the department gave me a lot of exposure and also helped me develop my personality.

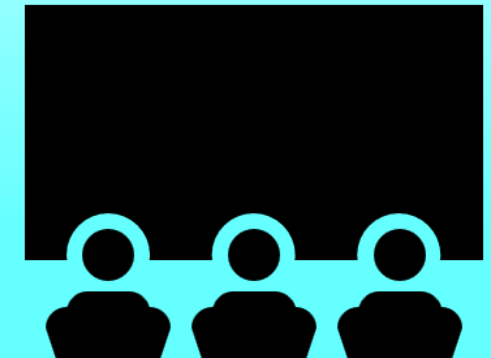
Regards

Palak Pandey

ALUMNI TALK



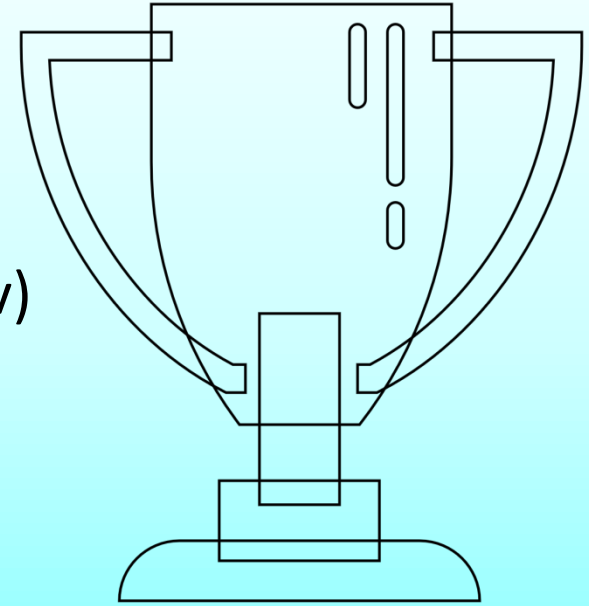
- ❑ Alumni shared insights on industry trends, career paths and personal experiences.
- ❑ Attendees gained valuable advice for navigating their professional journeys. Discussion ranged from networking strategies to overcoming challenges in their workplace.
- ❑ The talk served as an inspiring platform for current students to envision their future.



ACHIEVEMENTS OF ALUMNI

- AWARDS RECEIVED BY STUDENTS:

- For outstanding performance in 2nd year (Kusum)
- Swimming Competition (State and Nationals) (Neha Yadav)
- Excellence in Academics (Kirti)

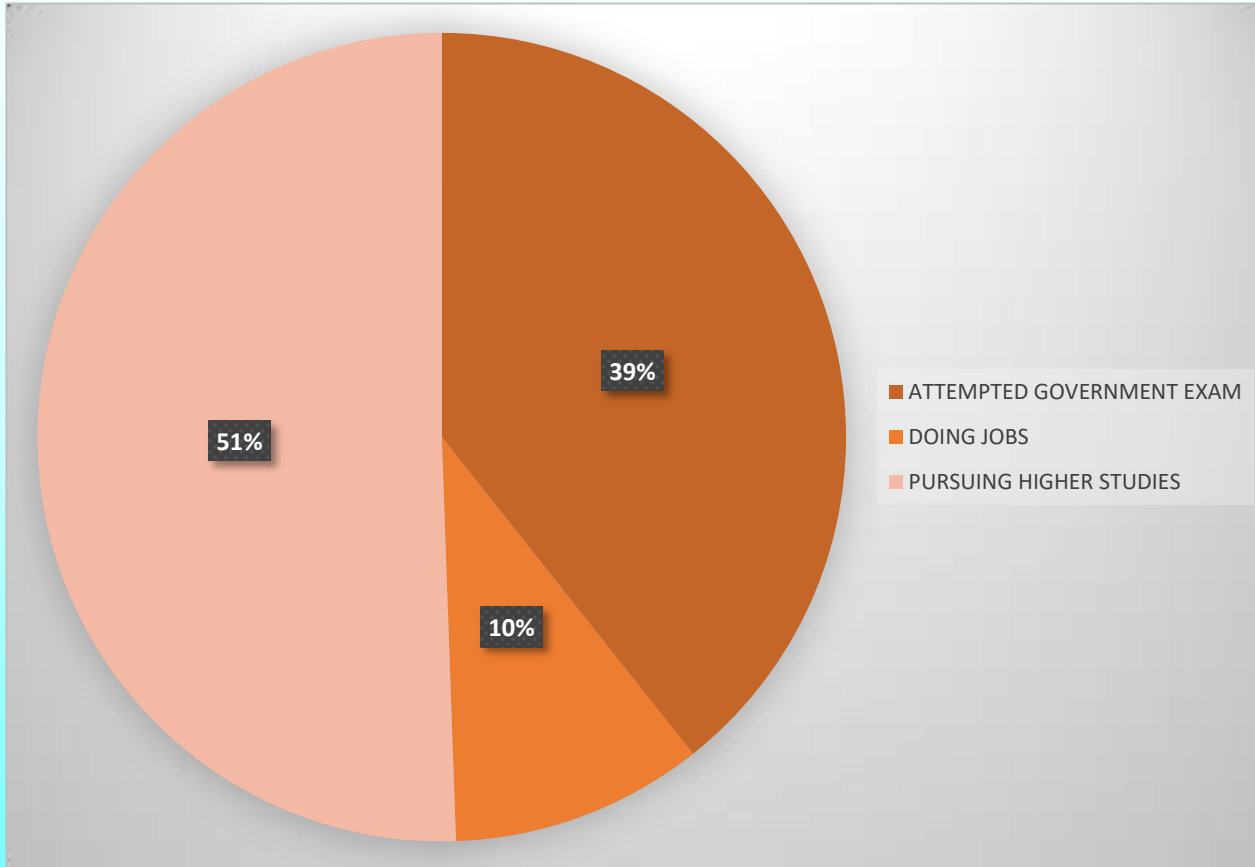


- NO. OF STUDENTS QUALIFIED IN STATE/NATIONAL/INTERNATIONAL LEVEL EXAMINATIONS:

49(2021-2022)

27(2022-2023)

ALUMNI DATA



LINK FOR MORE DETAILS:

**[Alumni Details
\(Responses\).xlsx](#)**

PEDAGOGIC ACTIVITIES



- Quizzes are organized which plays a crucial role in the learning process by reinforcing concepts, identifying areas for improvement and building confidence in the students



-- Mathematical games and puzzles are integrated into the lessons to make learning more engaging and enjoyable.

-- Games like sudoku and math board games reinforce problem solving skills and mathematical concepts.



-- A workshop was organized by the department with the course material provided by IIT Bombay.

-- It utilized mathematical software, interactive graphing calculator that aids visualization and exploration of mathematical concepts.

SWOC ANALYSIS



S

STRENGTH

- Faculty expertise is one of the key area where our major strength lies. The faculty has diverse area of specialization.
- We try to collaborate with the other department in order to ensure that apart from academics our students excel in other skills so as to show them the path towards success in their future endeavors.



W

WEAKNESS

- Just as everyone has their own weaknesses, we also encounter a few. Insufficient number of faculties is one of them which we overcome by putting a wise strategy in place so that students do not get affected.
- We also face challenges towards raising funds, limited resources but we will ensure that we will our standards to overcome this to quite an extent.



O

OPPORTUNITIES

- We collaborate with other departments and societies so as to offer a broader range of opportunity to our students.
- We accept enhanced teaching method and practice them in true sense to improve teachers engagement and our personalized learning as well.
- We believe in nurturing relationship with our alumni by keeping them connected and then ensuring the flow of information to existing batches.



C

CHALLENGES

- Several challenges are faced by the department but at the same time these challenges provides room to improve and survive in a better manner. Since the subject is perceived as difficult subject by many, this leads to avoidance to study the subject.
- Sometimes sources to cater the need of the department are limited.

ROAD MAP TO FUTURE



Planning the content and teaching to engage student effectively.



Tech integration and creating entrepreneurs out of these technical mind of students.



Faculty participation to be increased in the field of academics as well as adding knowledge to their technical ability.



Bringing positive opinions towards research engagement among students.



Strengthening the department by developing strong student support services.



Developing skills of the students with constant support and motivation by the faculties.

ANY QUESTIONS



ACADEMIC AUDIT FORMAT-FORMAT-1- ACADEMIC AUDIT 2021-22, 2022-23(22 April.docx

THANK YOU

