

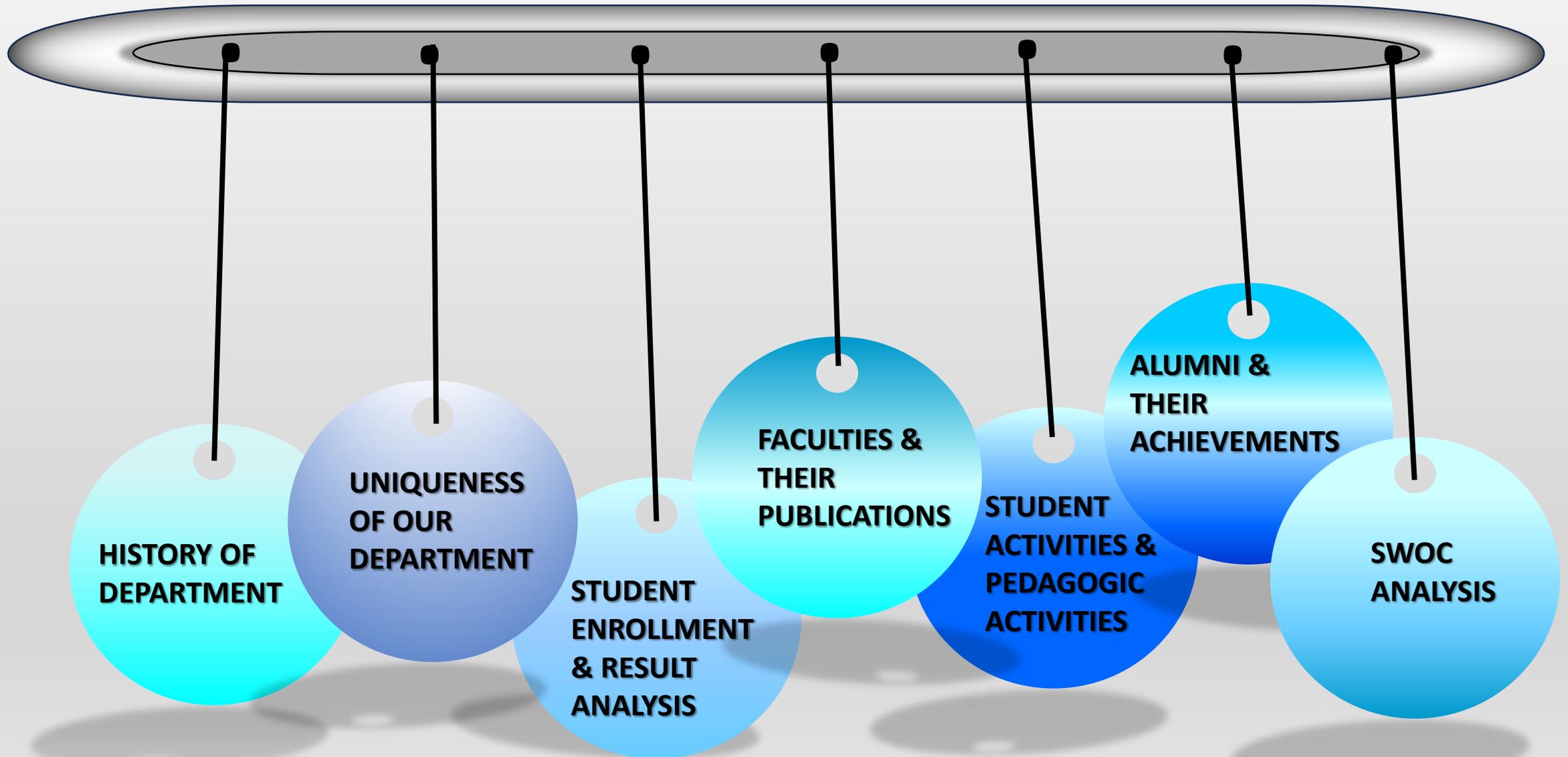


DEPARTMENT OF MATHEMATICS



**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



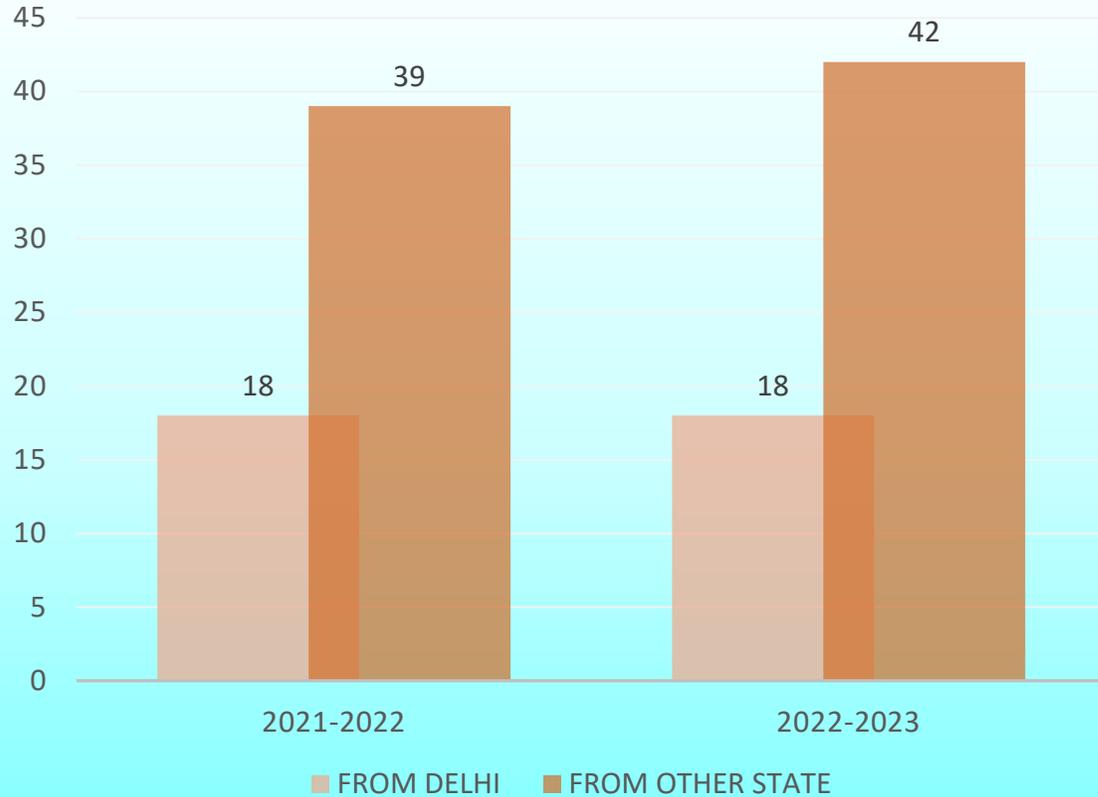
Dr. Meenakshi Gupta



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

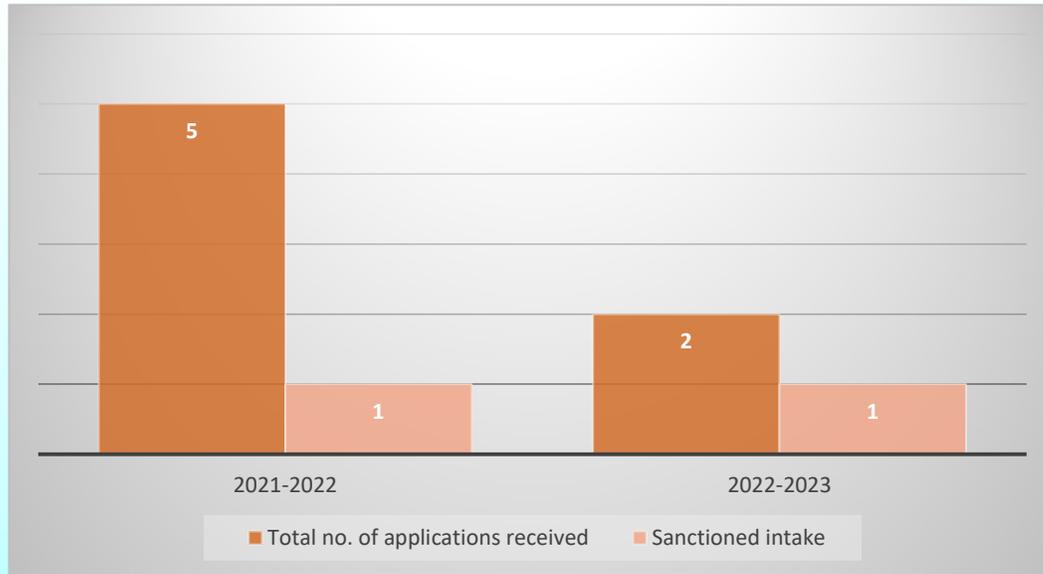


DIVERSITY OF STUDENTS

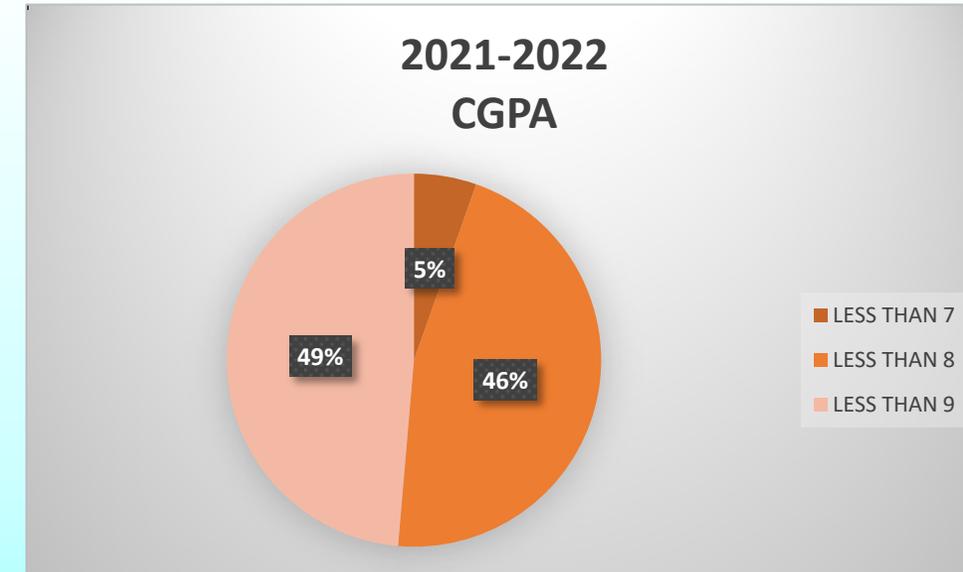
-STUDENTS FROM DIFFERENT REGIONS ACROSS DIFFERENT INDIAN STATES ENROLL IN MATHEMATICS HONOURS

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

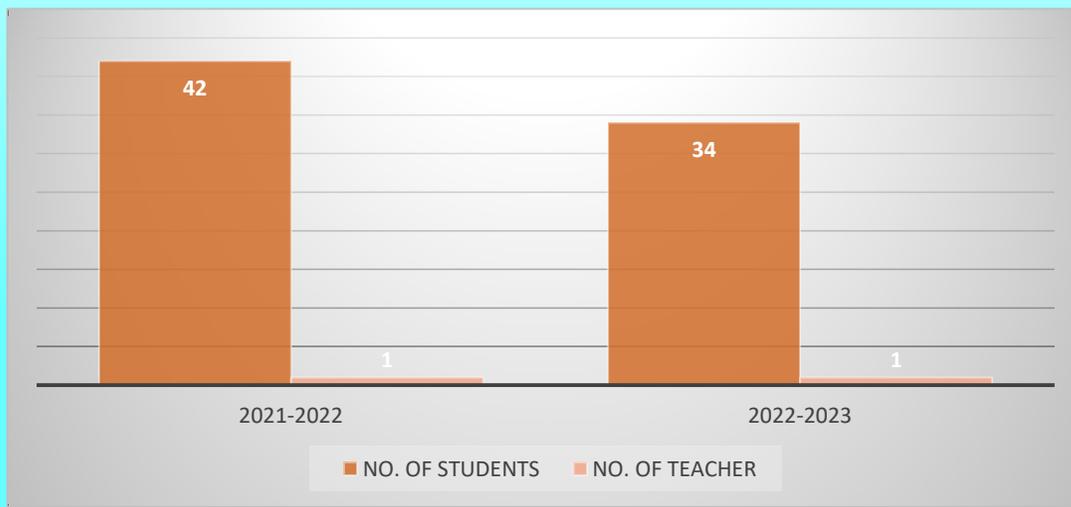
DEMAND RATIO



RESULT ANALYSIS



STUDENT-TEACHER RATIO





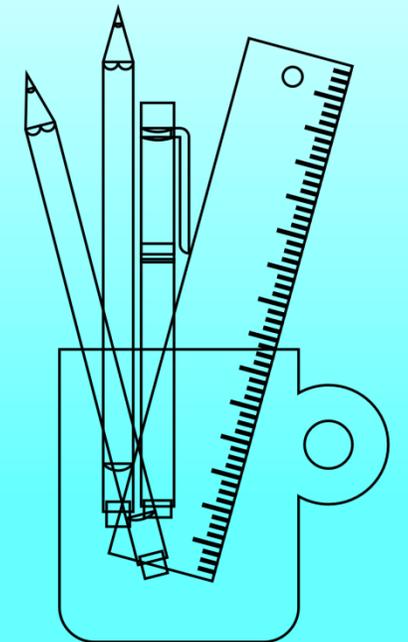
THE EXPONENTS (SOCIETY OF MATHEMATICS)

HISTORY OF DEPARTMENT

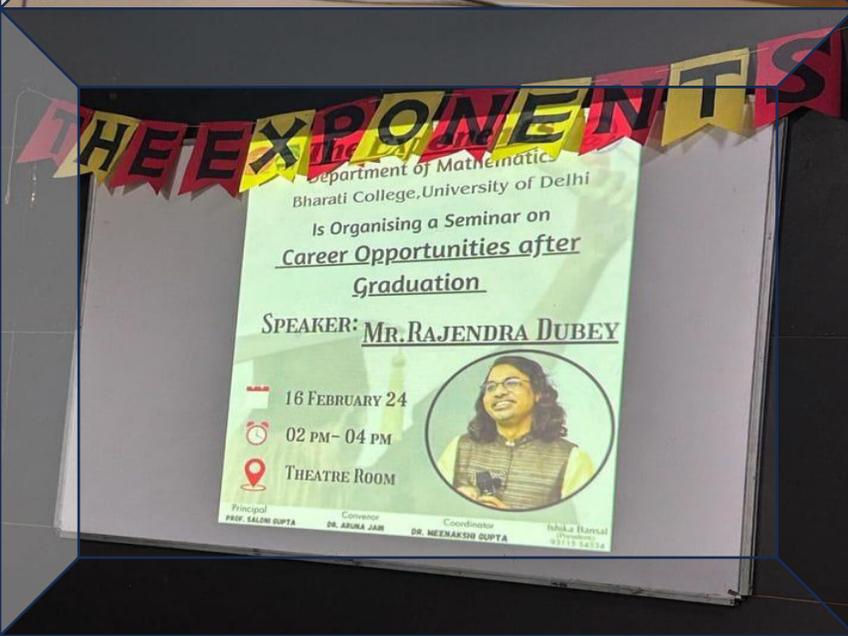
- The department was formed in 2017.
- The name was decided collectively to convey exponential growth.
- The society aims towards the welfare of mathematics students by bringing in an even handed pool of opportunities.
- The logo design was an inspiration from a logo making competition that the department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

LINK FOR MORE DETAILS: [EVENT DETAILS .xlsx](#)

CERTIFICATES OF STUDENTS



SHAHEED BHAGAT SINGH COLLEGE
UNIVERSITY OF DELHI
(DEPARTMENT OF MATHEMATICS)



CERTIFICATE
Presented to
Tannu Priya

of **Bharati College** for securing **second prize** in
MATHVENTURE - The Problem Solving Competition held on 11 February 2024,
organised by **The Mathematics Society of Shaheed Bhagat Singh College.**

Arun Kumar
PROF. ARUN KUMAR ATTREE
(PRINCIPAL)

Pooja Raj Verma
DR. POOJA RAJ VERMA
(TEACHER-IN-CHARGE)

MS. Jyoti Varshney
MS. JYOTI VARSHNEY
(CONVENER)



Certificate of Participation

This is to certify that **RIYA VISHWAKARMA** participated in the **GeoGebra 5.04** training organized at **Bharati College** in **January 2023** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **GeoGebra 5.04** were covered in the training.

March 3rd 2023

Prof. Kannan M Mondgalya
Prof. Kannan M Mondgalya
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.



राष्ट्रीय कैडेट कोर
NATIONAL CADET CORPS

विशिष्ट राष्ट्रीय एकता शिविर-2024
SPECIAL NATIONAL INTEGRATION CAMP (SNIC) - 2024
प्रधानमंत्री रैली PRIME MINISTER'S RALLY
प्रसंशा-पत्र
APPRECIATION

This is to certify that No.DL22SWA189310.....Rank.....CDT.....
Name.SHIVANI.....Unit..5.DGBN.....
NCC Directorate.....Delhi.....

ने 27 जनवरी 2024 को नई दिल्ली में, प्रधान मंत्री रैली - 2024 में, विशिष्ट राष्ट्रीय एकता शिविर सांस्कृतिक कार्यक्रम में हिस्सा लिया और उत्कृष्ट प्रदर्शन किया।
Participated in the Cultural Program at the Prime Minister's Rally - 2024, Special National Integration Camp (SNIC) held at New Delhi, on 27 January 2024. His / Her performance is highly appreciated.

Cert No.: DGNCC/PMR/2024/233

दिनांक : 27 जनवरी 2024
Dated : 27 January 2024
स्थान : नई दिल्ली
Place : New Delhi



Abdul Hameed Khan
कर्नल अब्दुल हमीद खान
Col Abdul Hameed Khan
एसएनआईसी, कैम्प कमाण्डर
SNIC, Camp Commandant
पीएम रैली
PM Rally



देवाशीष चौधरी
Devasheesh Chowdhury
ग्रुप कमाण्डर
Group Commander
एनसीसी ग्रुप 'बी' दिल्ली
NCC Gp 'B' DELHI



भारती कॉलेज / BHARATI COLLEGE
दिल्ली विश्वविद्यालय/University of Delhi
NAAC द्वारा 'बी++' ग्रेड मान्यता प्राप्त
Accredited by NAAC with 'B++' Grade

CERTIFICATE OF MERIT
is hereby presented to
Prachi Maurya
of **Bharati College**
for **securing Third Position (3rd) in**
Debate Competition - 'Task Vitank'

Nandini
Date: _____
Principal

Saloni
Principal



राष्ट्रीय कैडेट कोर
NATIONAL CADET CORPS

प्रमाण-पत्र
CERTIFICATE
COMBINED ANNUAL TRAINING CAMP-2023
5 DELHI GIRLS BN NCC

सं० No. DL22SWA189310 रैंक Rank. CDT नाम Name SHIVANI
यूनिट Unit. 5 DELHI GIRLS BN NCC राष्ट्रीय कैडेट कोर निदेशालय दिल्ली NCC Directorate Delhi
के of स्कूल School / कॉलेज College BHARATI 'A' COY
attended COMBINED ANNUAL TRAINING CAMP held at DG NCC CAMP
से From 15 - MAY - 2023 तक To 24 - MAY - 2023

सामान्य टिप्पणियां General Remarks _____

स्थान Place : New Delhi
तारीख Date : 24 - MAY - 2023

NS Yadav
Col
Camp Commandant

DEPARTMENT'S SOCIAL RESPONSIBILITY

Initiative Of Department Of Mathematics Under IQAC

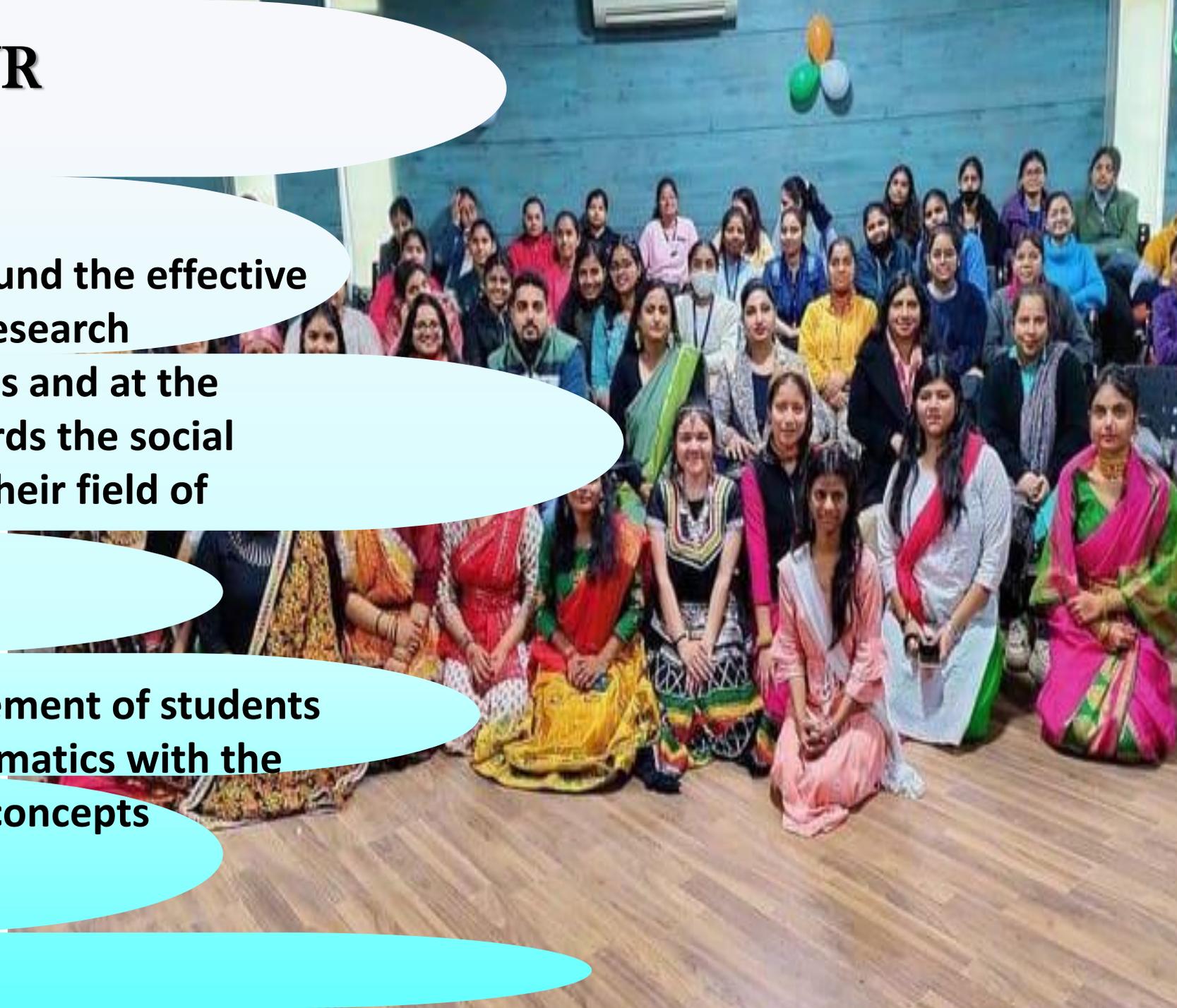


- Academic Support Cell was established in 2017 as a joint effort of students of B.Sc.(Honours)Mathematics and B . A. Program, Bharati college.
- Our students teach mathematics to fellow students from diverse academic backgrounds, thereby addressing the needs of those with limited or no prior exposure 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>

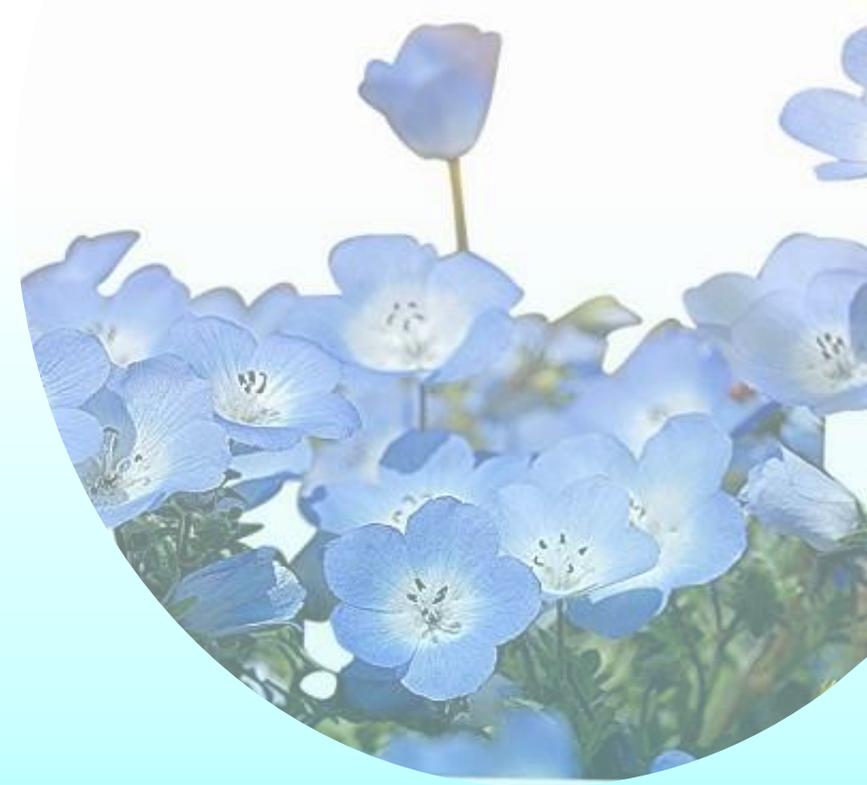
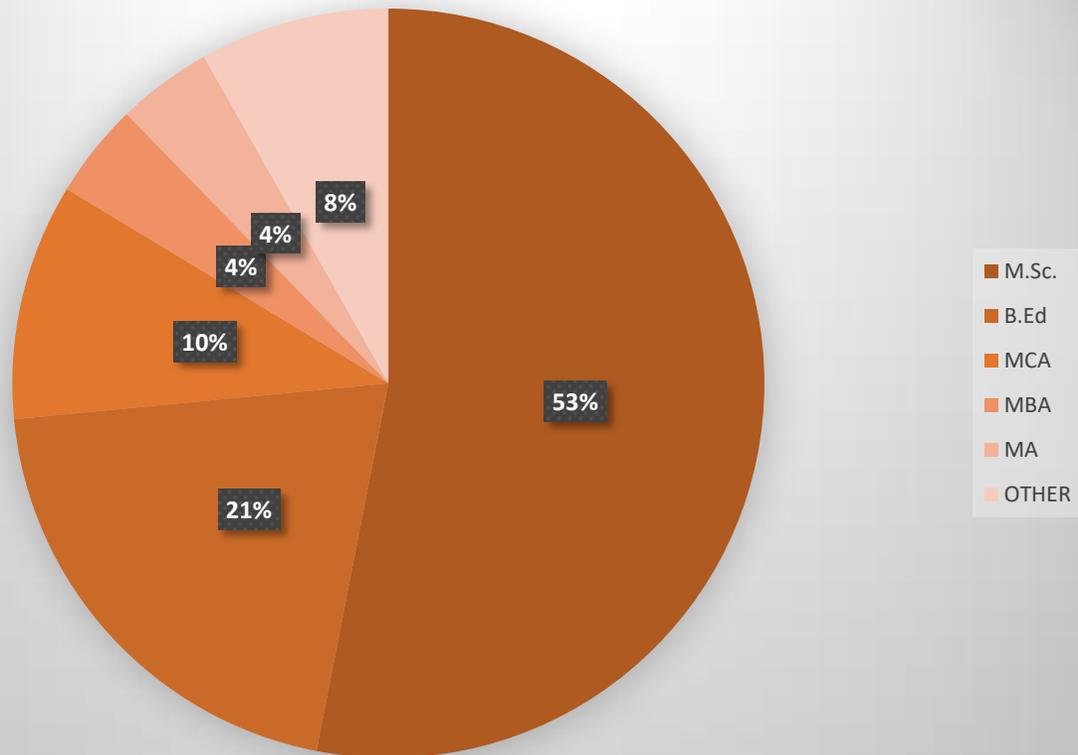
UNIQUENESS OF OUR DEPARTMENT

- 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)

"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)

"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)

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



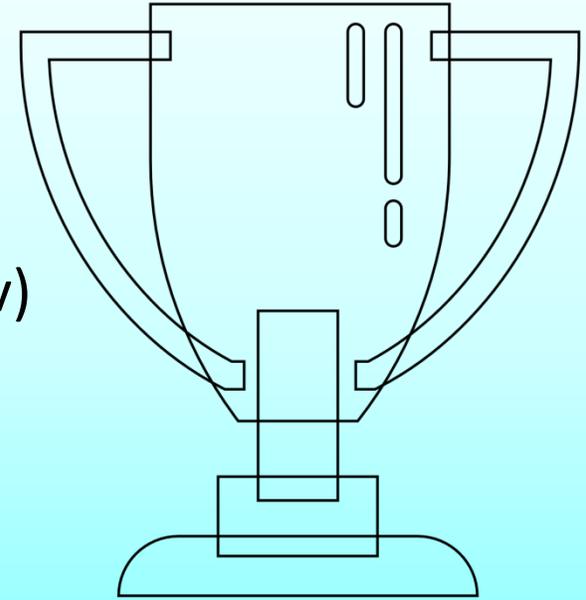
- ❑ Alumni shared insights on industry trends, career paths and personal experiences.
- ❑ Attendees gained valuable advice for navigating their professional journeys. Discussion ranged from networking strategies to overcoming challenges in their workplace.
- ❑ The talk served as an inspiring platform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

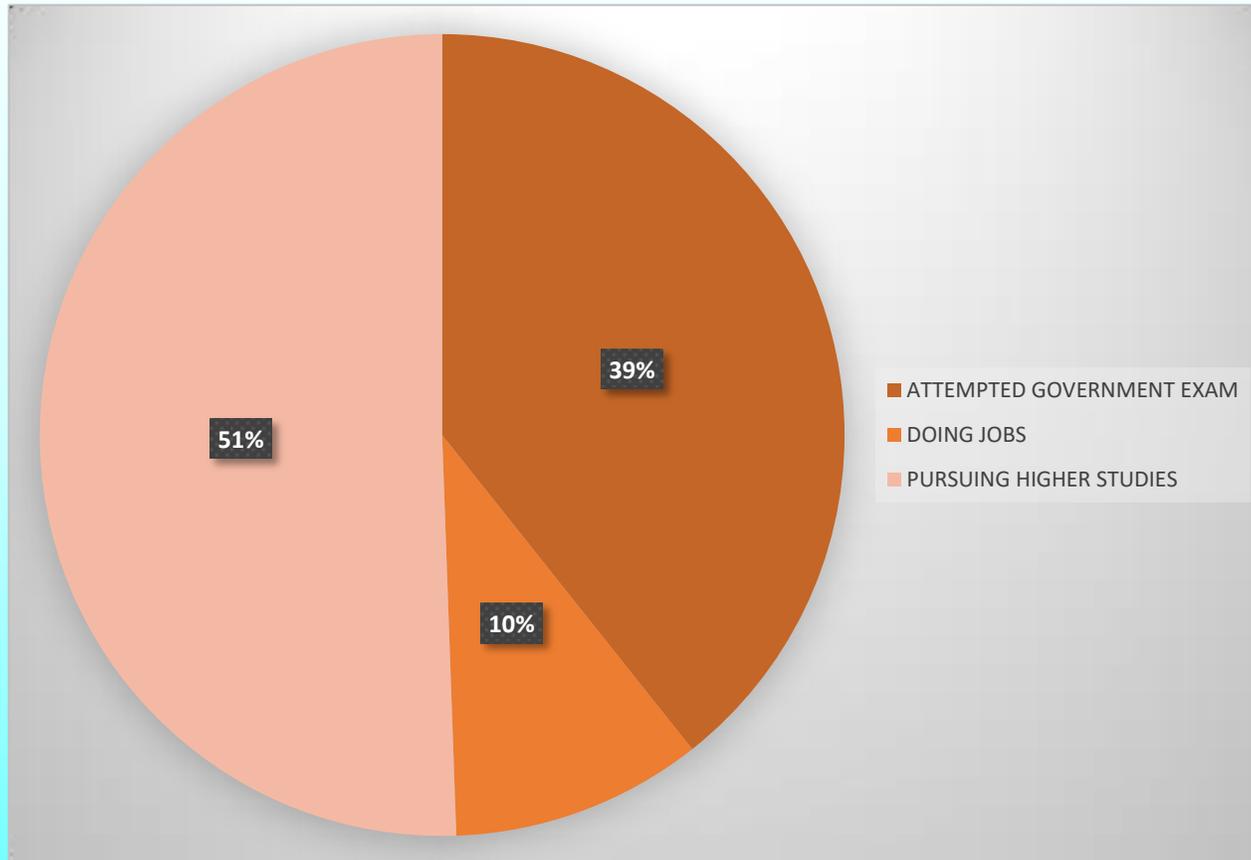


- NO. OF STUDENTS QUALIFIED IN STATE/NATIONAL/INTERNATIONAL LEVEL EXAMINATIONS:

49(2021-2022)

27(2022-2023)

ALUMNI DATA



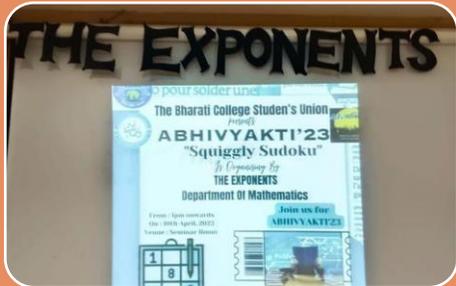
LINK FOR MORE DETAILS:

[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

