

# SH. L.N. HINDU COLLEGE, ROHTAK

Affiliated to M.D University, Rohtak A post Graduate Co-Educational College, Bhiwani Road, Rohtak Accredited by NAAC with 'B' (2.74) Grade

# DEPARTMENT OF MATHEMATICS ANNUAL ACTIVITY REPORT (2021-22)



















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# About The Department of Mathematics

The Department of Mathematics is one of the oldest department of the college and has been set up with the aim to impart the latest education of mathematics to interested young generation. The Department uses traditional as well as modern teaching approach for understanding of the concerned subject by bringing qualitative shift in its curriculum, teaching methodology and perception development in the realm of knowledge gain. Over the years the department has made rapid strides in academics and at present it has approximately 140 students distributed over several programs at undergraduate and postgraduate levels.

## Mission

To develop an understanding of Mathematics and its applications, the ability to reason and communicate mathematically as well as to assimilate new mathematical ideas, research activities so as to build productive connection between academic and non- academic communities, an appreciation of Mathematics as a driving force in society.

# Vision

To achieve the highest standards of excellence in generating and propagating knowledge in the fields related to Mathematics by promoting the Mathematical applications for solving real life problems using advanced techniques.

# Objective

- To provide a platform to the students to exploit their academic potentials and teaching skills.
- To promote cooperation and inter-disciplinary relationship with the other teaching and research organizations.
- To arrange conferences, seminars and workshops for the promotion of research and development in the field of Mathematics.
- To culminate in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics.
- To study and gain skills and knowledge in the related areas of Mathematics like Computer Science and Statistics and to lead for proficiency in analytical reasoning so that the same can be utilized in modelling and solving real life problems.
- To help learners in building a solid foundation for higher studies in the field of Mathematics.
- To learn logically question assertions, to recognize patterns and to distinguish between essential and irrelevant aspects of problems.
- To present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians.
- To enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.

# Types of Competitions for the Students at College Level, District Level, Division Level, State Level and National Level:

- Mathematical Slogan Writing
- National Level Mathematical Article Writing
- Mathematical Rangoli
- Mental Ability Test
- Quiz Contest
- National Seminar
- Power Point Presentation
- State Level Poster Making
- State Level E-Mathematics Quiz
- State Level Mathematical Sketch
- National Level Poster Making



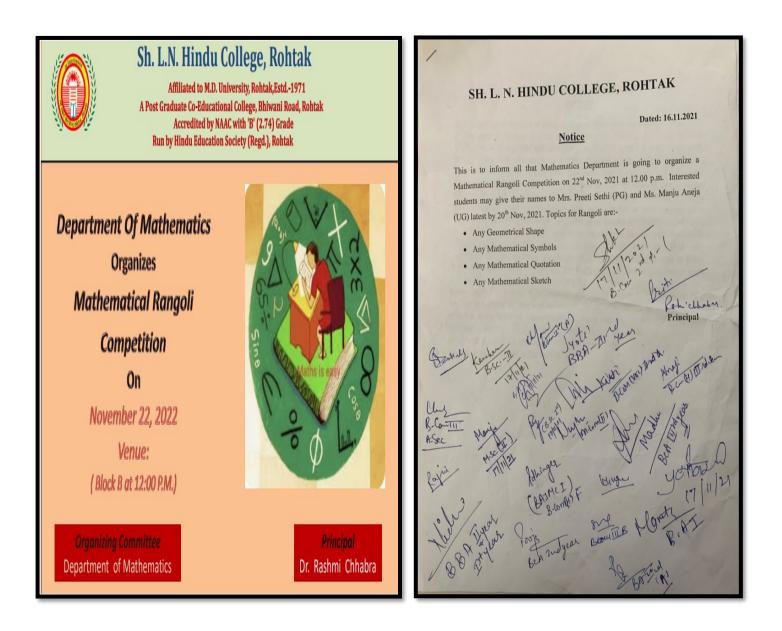
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# Events/Activities organized by Department of Mathematics (2021-22)

1. Mathematical Rangoli Competition (November 22, 2021)

"Mathematics is the most beautiful and most powerful creation of the human spirit."



The Department of Mathematics organized a 'Mathematical Rangoli' competition on November 22, 2021, under the chairmanship of College Principal, Dr. Rashmi Chhabra. In this competition, 20 students from the college showed their creative potential in their best form in their artworks which is highly commendable. Dr. Sunny Kapoor told rules and gave important instructions regarding competition to all the participants. Dr. Meenakshi Gugnani, Head of the Department and Coordinator said that Mathematics is not just about formulas and logic; instead, it can be used to express beauty and shapes through pattern, symmetry and arrangement. With the help of mathematics, artists can achieve new heights in the field of designing. In the competition, students made Rangoli related to Geometry, Trigonometry, Calculus, etc. Dr. Meenakshi Gugnani, Mrs. Preeti Sethi, Ms. Sonam played the role of jury in the competition. The successful and efficient operation of the competition was done under the guidance of Dr. Sunny Kapoor and Ms. Manju.

Principal Dr. Rashmi Chhabra while guiding the students said that in Mathematics, Rangoli is a creative way to discover patterns, symmetry and reflection. Such competitions are very necessary to develop the skill development and creative power of the students and to increase the moral of the students. She gave her best wishes to the organizing committee and said that such kind of events should be organized in future also for the betterment of the students. Ankush Grover, Sakshi etc. were present on this occasion.

Sr. No.	Name	Class	Roll. No.	Position
1.	Madhav	B.C.A I	9089	1 <sup>st</sup>
2.	Sakshi	B.A. II	3401	2 <sup>nd</sup>
	Urvashi	B.A. II	3432	2 <sup>nd</sup>
3.	Charu	B.Com. I	8646	2 <sup>nd</sup>
	Guddu	B.Com. I	8602	2 <sup>nd</sup>
4.	Riya	B.A. II	3116	3 <sup>rd</sup>
5.	Shweta	M.sc II	1722	3 <sup>rd</sup>
6.	Rahul	B.com. II	3754	Consolation
	Nitin	B.com. II	3711	Consolation

# **Result-**





# मैथमेटिकल रंगोली में माधव ने मारी बाजी

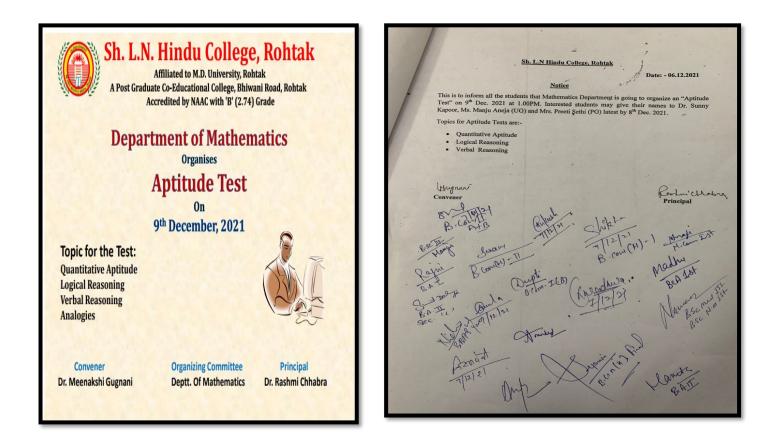


# हरिभूमि न्यूज 🔊 रोहतक

श्री लाल नाथ हिंदू महाविद्यालय में सोमवार को गणित विभाग के तत्वाधान कॉलेज प्राचार्या डॉ. रश्मि छाबड़ा की अध्यक्षता में मैथमेटिकल रंगोली प्रतियोगिता का आयोजन किया गया। गणित विभागाध्यक्ष एवं संयोजिका डॉ. मीनाक्षी गुगनानी ने बताया कि गणित केवल सूत्रों और तर्क के बारे में नहीं है, इसके बजाय इसका उपयोग पैटर्न, समरूपता और व्यवस्था के माध्यम से सुंदरता और आकृतियों को व्यक्त करने के लिए किया जा सकता है। प्रतियोगिता में विद्यार्थियों ने ज्योमेट्री, ट्रिग्नोमेट्री, कैलकुलस आदि से संबंधित रंगोली बनाई। प्रथम स्थान माधव ने हासिल किया। वहीं चारू व साक्षी दूसरे और रिया एवं श्वेता ने तीसरा स्थान हासिल किया। राहुल को सांत्वना पुरुस्कार दिया गया। निर्णायक मंडल की भूमिका डॉ. मीनाक्षी गुगनानी, डॉ. सन्नी कपूर ने निभाई। इस अवसर पर मंजू, सोनम, प्रीति सेठी, अंकुश ग्रोवर, साक्षी आदि उपस्थित रहे।

# 2. Aptitude Test (December 09, 2021)

*Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything <u>around us is numbers.</u>* 



The Department of Mathematics organized an "Aptitude Test" Competition on 9<sup>th</sup> December, 2021 under the supervision of Dr. Meenakshi Gugnani and Dr. Sunny Kapoor. 80 students from the college participated in this competition. In this competition, topics were related to Quantitative Aptitude, Logical Reasoning, Verbal Reasoning, Analogies etc. There are in all 50 Multiple choice questions to develop in depth knowledge of the basic concepts of the mathematics in the participants. Dr. Meenakshi Gugnani, Head of Mathematics Department said that the present era is the era of skill-development and innovations. Math is logical, fun and challenging, math's is a tonic for our mind. It helps us to learn new things, master new methods and solve various puzzles. Such competitions develop creative thinking, logical thinking ability, problem solving ability and mental discipline in the students. All the participants enthusiastically participated in the competition.

Principal, Dr. Rashmi Chhabra while guiding the students said that Mathematics is such a subject which is related to our everyday life, it is a tool in our hand to make our life simple and easy, by which we can solve many problems. Ms. Manju, Ms. Sonam, Mrs. Preeti Sethi, Mr. Ankush Grover and Ms. Sakshi etc. were present on this occasion.

# Result

Sr. No.	Name	Class	Roll No.	Position
1.	Monu	M.Sc. II	1732	1 <sup>st</sup>
2.	Manish	B.Sc. III	5442	1 <sup>st</sup>
3.	Yogita	B.Sc III	5417	2 <sup>nd</sup>
4.	Anuj	B.Sc II	1316	2 <sup>nd</sup>
5.	Harsh	B.C.A I	9050	2 <sup>nd</sup>
6.	Varsha	M.Sc II	1716	2 <sup>nd</sup>
7.	Shweta	M.Sc II	1722	3 <sup>rd</sup>
8.	Deepak	M.Sc I	9824	3 <sup>rd</sup>





हरिमुमि न्यूज ▶≥। रोहतक

ने I

5

य श्री लाल नाथ हिंदू महाविद्यालय में गणित विभाग के तत्वावधान 5 T में कॉलेज प्राचार्या डॉ. रश्मि छाबडा की अध्यक्षता में Б एप्टिट्यूड टेस्ट प्रतियोगिता का आयोजन किया गया। प्रतियोगिता में मोनू प्रथम, योगिता, वर्षा, हर्ष व अनुज द्वितीय और दीपक व श्वेता ततीय स्थान पर रहे। प्राचार्या ने कहा गणित ऐसा विषय है जो हमारी रोजमर्रा की जिंदगी से जुड़ा हुआ है, यह हमारे जीवन को सरल और आसान बनाने के लिए हमारे हाथ में एक उपकरण है। जिससे हम बहुत सी समस्याओं का समाधान कर सकते है। गणित विभागाध्यक्ष एवं संयोजिका डॉ. मीनाक्षी गुगनानी ने बताया कि वर्तमान युग कौशल-विकास और नवाचारों का युग है। गणित हमारे दिमाग के लिए एक टॉनिक है। यह हमें नई चीजें सीखने, नई विधियों में महारत हासिल करने और विभिन्न पहेलियों को सुलझाने में मदद प्रतियोगिता करता है। क्वांटिटेटिव एप्टिट्युड, लॉजिकल रीजनिंग, वर्बल रीजनिंग, अनालोगिस आदि से संबंधित विषय रहे। इस अवसर पर डॉ. सन्नी कपूर, मंजू, सोनम, प्रीति सेठी, अंकुश ग्रोवर, साक्षी आदि उपस्थित रहे। रोहतक। श्री लाल नाथ हिंदू महाविद्यालय में एप्टीट्युड टेस्ट में भाग लेते प्रतिभागी।

#### दिवना

मैं, विद्या रानी पत्नी श्री आजाद सिंह निवासी मकान नम्बर 214/29 राम गोपाल कालोनी रोहतक बयान करती हूं कि मेरा पुत्र कपिल मेरे कहने-सुनने से बाहर है। इसलिए मैं इसको अपनी चल-अचल सम्पति से बेदखल करती हूं। इससे लेन-देन, व्यवहार करने वाला स्वयं जिम्मेवार होगा। मेरी व मेरे परिवार की कोई जिम्मेवारी नहीं होगी।

COURT NOTICE IN THE COURT OF SH. PARVEEN ADDL. CIVIL JUDGE (SR. DIV.) MEHAM Case No. CS/184/2021 CNR No. HRRHA0000287-2021 Next Date:-17.03.2022 At 10 AM 1. Mahipal S/o Kishan Lal S/o Nanda 2. Chhalu Ram S/o Kirodi S/o Kehar Singh Both R/o Village Mokhra Kheri, Teh. Meham, Distr. Rohtak Plaintiffs

....Plaintiffs

VS 1. General Public 2. Tehsildar Meham

3. Virpal S/o Ajit Singh 4. Ram Kishan S/o Gokal 5. Ranbir Singh S/o Jugti Ram All R/o Village Mokhra Kheri, Teh. Meham, Diett Robtek Distt. Rohtak.

... Proforma Defendants

Suit for declaration permanent injunction (It is therefore prayed that a decree for declaration to the effect that the actual name of Kanhaiya is Kirodi and share of Kirodi be entered in favour of his legal heirs and also delete the name of Kehar Singh S/o Rajender Singh S/o Ram Chander from the revenue record being illegal entry and there is no such co-sharer in the suit land and further directed the co-sharer in the suit and and ruler directed the defendants to correct the revenue entries by entering the share of legal heirs of Kirodi and also correct the share of co-shares after deleting the share of alleged Keharr Singh from revenue record, be passed in favour of the plaintiffs and against the defendants in the interest of justice) Concerts Public

against the defendants in the interest of justice) In above titled petition the respondent(s) could not be served. It is ordered that the Respondent(s) should appear in person or through counsel on 17-03-2022 at 10.00 A.M. For more details logon : https://dis-tricts.ecourts.gov.in/rohtak

Sd/- Parveen, Addl. Civil Judge (Sr. Div.) Meham 07.12.2021

3. National Level Online Poster Making Competition (December 22, 2021)

"Go down deep enough into anything and you will find mathematics."

SH. L.N. HINDU COLLEGE, BHIWANI ROAD, ROHTAK (Affiliated to M.D. University, Rohtak) A Post Graduate Co-Educational College Accredited by NAAC with 'B' (2.74) Grade					
Organises NATIONAL LEVEL ONLINE POSTER MAKING COMPETITION on the occasion of 'National Mathematics Day' to commemorate					
134 <sup>th</sup> BIRTH ANNIVERSARY OF SRINIVASA RAMANUJAN ON DECEMBER 22, 2021 Topics of Competition Portrait of the Legend: Srinivasa Ramanujan.					
<ul> <li>Rules/ Steps for Competition</li> <li>All UG/PG students can participate from any college of India.</li> <li>Poster should be original on A4 size sheet.</li> <li>Each college can send maximum two entries.</li> <li>Poster should be send on the following E-Mail: mathsseminar2020@gmail.com by Dec. 22, 2021 in PDF format upto 10:00 am.</li> <li>Mention your Name, Class, Roll No, College Name, Email, Ph. No., City, State while sending your E-Mail.</li> <li>Call State Stat</li></ul>					
Organising Committee Dr. Meenakshi Gugnani, Dr. Sunny Kapoor Ms. Preeti Sethi, Ms. Manju, Ms. Sonam, Ms. Ankush, Ms. Sakshi	Dr. Rashmi Chhabra (Principal)				

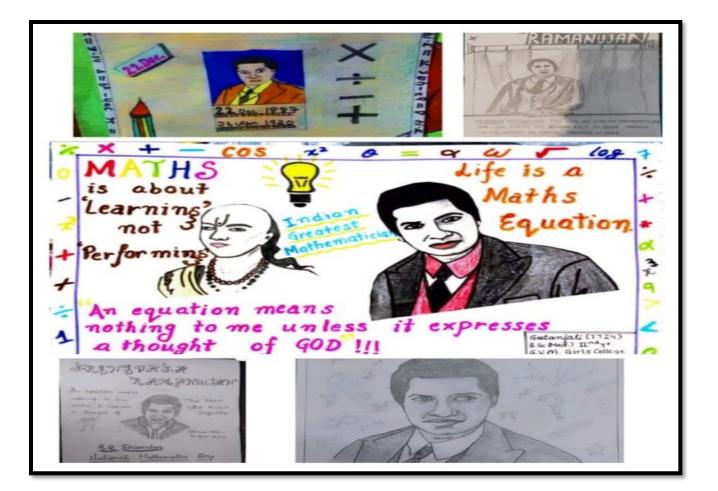
On the occasion of National Mathematics Day, to commemorate 134<sup>th</sup> birth anniversary of Srinivasa Ramanujan, under the aegis of Department of Mathematics, Sh. L.N. Hindu College Rohtak organized **"National level Online Poster Making Competition"** on December 22, 2021. In this Competition, topics were related to portraits, sketch of life history of great mathematician Srinivasa Ramanujan and inventions by the great Mathematicians etc. In this competition, 40 students from different universities and colleges of the country displayed their talent.

Dr. Meenakshi Gugnani (Head of Mathematics Department and Coordinator) described Ramanujan as the pride of India. Many original and traditional results were drawn on the strength of talent, from which research work is being done even today. She said that the purpose of such competitions is to increase the encouragement among the students so that students can be inspired to do new research by getting inspired by the work of mathematicians. The role of jury in the competition was played by Dr. Sunny Kapoor and Ms. Sonam. The successful and efficient operation of the competition was done under the direction of Dr. Meenakshi Gugnani and Mrs. Preeti Sethi.

College Principal, Dr. Rashmi Chhabra while praising and guiding the student's artwork said that at a very young age, Srinivasa Ramanujan has shown a unique talent. Such competitions are very important to increase the morale of the students, which inspire the students to do better things in life. Best wishes and congratulations to the Department of Mathematics for the successful conduct of the competition and motivated to organize such competitions in future also. Ms. Manju, Mr. Ankush and Ms. Sakshi were also present on this occasion.

### Result

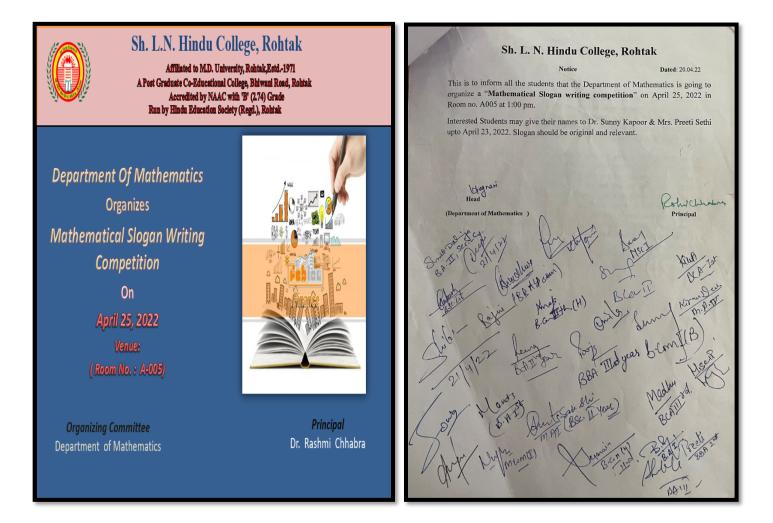
Sr. No.	Name	Class	College	Position
1.	Nikhil	B.B.A. 1 <sup>st</sup> Year	Sh. L.N. Hindu College, Rohtak	1 <sup>st</sup>
2.	Geetanjali	B.Sc (Medical)- II	GVM Girls College, Sonepat	2 <sup>nd</sup>
3.	Nidhi	B.Sc. (Hons.) Mathematics-III	RPS Degree College, Balana, Mahendergarh, IGU (Meerpur)	2 <sup>nd</sup>
4.	Tannu Tyagi	B.A. (Hons.) Economics- II	BPS Mahavidyalaya, Panipat	3 <sup>rd</sup>
5.	Seema	B.A III	GCG, Mohana, BPS University, Sonipat	3 <sup>rd</sup>





# 4. Mathematical Slogan Writing Competition (April 25, 2022)

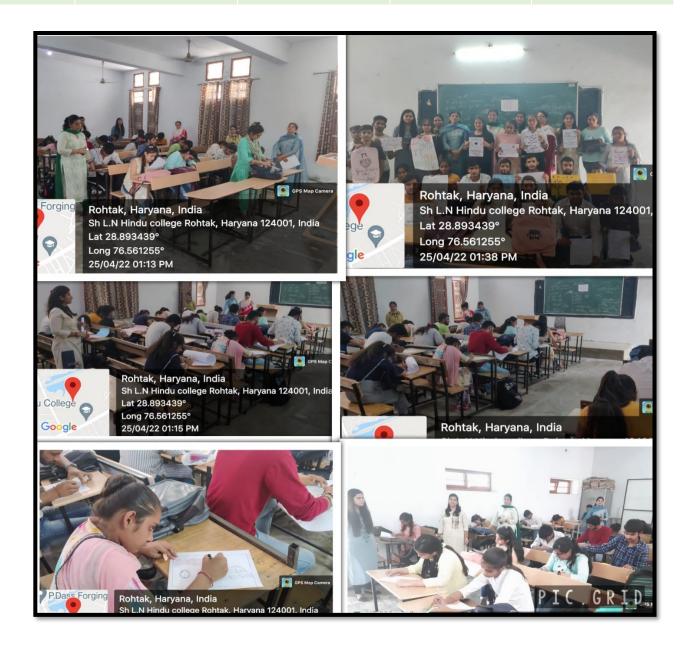
#### "Mathematics do not Study objects, but the relations between objects."



The Department of Mathematics organized a 'Mathematical Slogan Writing' competition on April 25, 2022 under the chairmanship of Principal, Dr. Rashmi Chhabra. On this occasion, Principal, Dr. Rashmi Chhabra said that Mathematics is the pillar of today's organized life. Without numbers and mathematical proofs, we cannot solve any problem in our life. She said that every student should participate in such competitions as these competitions help in revealing the hidden talent, self-confidence in the students. A total of 30 students enthusiastically participated in the competition and displayed their artistic and creative skills through their ideas. The successful and efficient operation of the competition was done under the direction of Dr. Meenakshi Gugnani and Manju. The jury was played by Dr. Meenakshi Gugnani, Dr. Sunny Kapoor, Mrs. Preeti Sethi and Sonam. Certificates were given to all the winning participants. In the end, Principal, Dr. Rashmi Chhabra ji congratulated all the winning participants and appreciated all the members of Mathematics Department for the efficient conduct of the competition. Mr. Ankush, Ms. Sakshi etc. were present on this occasion.

# Results

Sr. No.	Name	Class	Roll No.	Position
1.	Madhav	B.C.A. I	9089	1 <sup>st</sup>
2.	Priyanka	M.Sc. I	9817	2 <sup>nd</sup>
3.	Tulsi	B.A I	8071	3 <sup>rd</sup>
4.	Ishani	M.Sc I	9827	3 <sup>rd</sup>
5.	Sachin	B.A I	8522	Consolation



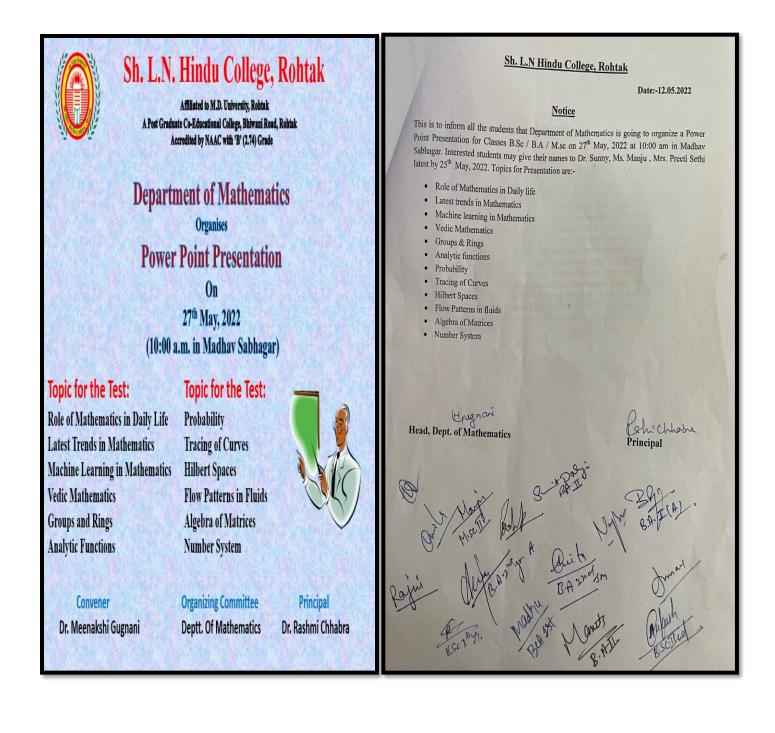
# मैथेमेटिकल स्लोगन राइटिंग स्पर्धा में माधव बने विजेता



रोहतक | श्री लाल नाथ हिंदू कॉलेज के गणित विभाग ने सोमवार को मैथेमेटिकल स्लोगन राइटिंग प्रतियोगिता का आयोजन किया। इसमें बच्चों ने उत्साह के साथ भाग करके अपनी प्रतिभा दिखाई। प्राचार्या डॉ. रश्मि छाबड़ा की अध्यक्षता में प्रतियोगिता हुई। इसमें प्रथम स्थान माधव सचदेवा, द्वितीय स्थान प्रियंका, तृतीय स्थान तुलसी एवं ईशानी ने प्राप्त किया। सांत्वना पुरस्कार सचिन ने प्राप्त किया। निर्णायक मंडल की भूमिका डॉ. मीनाक्षी गुगनानी, प्रीति सेठी और सोनम ने निभाई। इस अवसर पर विभागाध्यक्ष डॉ. मीनाक्षी गुगनानी, डॉ. सन्नी कपूर ने विचार रखे। संचालन मंजू ने किया। सोनम, अंकुश, साक्षी आदि उपस्थित रहे।

# 5. Power Point Presentation Competition (May 27, 2022)

### "In Mathematics alone each generations adds a new story to the old structure."



The Department of Mathematics organized a "**Power Point Presentation Competition**" on May 27, 2022 under the chairmanship of College Principal, Dr. Rashmi Chhabra. The topics of this competition were Role of Mathematics in Daily Life, Vedic Mathematics, Latest Trends in Mathematics, Number System, Probability, Hilbert Spaces, Flow Patterns in Fluids, Groups and Rings, Analytic Functions etc. On this occasion, Coordinator and Head of Department of Mathematics, Dr. Meenakshi Gugnani said that there is a very deep relationship between mathematics and society. Mathematics has played an important role in the development of any society. Mathematics is an exact science, it develops skills like thinking, reasoning, inference necessary for a successful life. She said that the objective of this competition is to enable the students to logically explain their interesting subjects in different branches of mathematics, to inculcate self-confidence and to develop scientific attitude. 15 students of the college enthusiastically participated in this competition, organized under the guidance of Dr. Sunny Kapoor and Sonam.

The stage was conducted by Mrs. Preeti Sethi and Mr. Ankush. The role of jury was played by Dr. Meenakshi Gugnani, Dr. Sunny Kapoor, Ms. Manju and Ms. Sakshi.

In the end, College Principal, Dr. Rashmi Chhabra congratulated all the participants and while guiding them said that the students should keep participating in such competitions to increase their knowledge and personality development.

At PG Level

Sr. No.	Name	Class	Roll No.	Position
1.	Mohit	M.Sc. I	9806	1 <sup>st</sup>
2.	Vineet	M.Sc. II	1708	2 <sup>nd</sup>
3.	Varsha	M.Sc. II	1716	3 <sup>rd</sup>

#### Results

### At UG Level

Sr. No.	Name	Class	Roll No.	Position
1.	Bhawana	B.Sc. III	5401	1 <sup>st</sup>
2.	Anuj	B.A. III	08	2 <sup>nd</sup>





