

## 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 (2023-24)





Dr. Meenakshi Gugnani Head, Department of Mathematics Associate Professor (Mathematics) Ph: 7404240160 Email Id: mgugnani22@gmail.com
Dr. Sunny Kapoor Assistant Professor (Mathematics) Ph:8168135344 Email Id: sunnykapoor323@gmail.com
Ms. Manju Assistant Professor (Mathematics) Ph: 7015617298 Email Id: manjuaneja05@gmail.com
Ms. Sonam Assistant Professor (Mathematics) Ph: 9729029976 Email Id:sonamuppal511992@gmail.com Sonamuppal791@gmail.com

Mr. Amit Assistant Professor (Mathematics) Ph: 9996002244 Email Id: amitdhuhan44@gmail.com
Mrs. Priyanka Sahni Assistant Professor (Mathematics) Ph: 8168570534 Email Id: sahnipriyanka2@gmail.com
Mrs. Santosh Assistant Professor (Mathematics) Ph: 8950694385

#### About The Department of Mathematics

The Department of Mathematics is one of the oldest departments of the college and has been setup impart the latest education of mathematics interested with the aim to to voung generation. The Department uses traditional as wellasmodernteaching approach for understanding of the concerned subject by bringing qualitative shifting 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 as approximately140 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.
- ✤ 3. 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
- Speech Competition



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# Events /Activities organized by Department of Mathematics (2023-24)

## 1. Mental Ability Test (September 26, 2023)

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

Sh. L.N. Hindu College, Rohtak Ref No. 2023/Sep/Stu/018 Dated: 20.09.2023 Notice It is already informed to all the students the Department of Mathematics is going to organize "Mental Ability Test" on Sept 26, 2023. The Venue and timings of activity are as follows:-Venue : Block-B Timings 12:45 p.m. lonain Pir. CND MAI R.N. 3.0 4.0

Mental ability test was organized by Department of Mathematics in Shri Lal Nath Hindu College under the chairmanship of Principal Dr. Anil Taneja. The topics of the competition were related to Reasoning and Quantitative Aptitude. Total 180 students of the college participated in the competition. Dr. Meenakshi Gugnani, Convener & Head- Department of Mathematics said that education is undoubtedly the secret of human success and competition is the place from where it all started. Competitive examinations help in increasing mental development, logical ability and self-confidence in students. This examination was organized with the aim of testing the intellectual ability of the students and developing competitive attitude.

On this occasion, Principal of the college honored the students by giving awards and certificates. While motivating the students he said that examinations are a natural part of our life. We should believe that competitive examinations are a milestone in our journey. Such examinations help students to think instead of relying on simple memory, hence students should keep participating in competitions in such examinations. On this occasion, Dr. Sunny Kapoor, Ms. Manju, Ms. Sonam, Mr. Amit Kumar, Mrs. Priyanka Sahni and Mrs. Santosh were also present.

#### **Result-**

Sr. No.	Name	Class	Roll. No.	Position
1.	Avneet Kaur	M.Sc. I	15012	1 <sup>st</sup>
2.	Kashish	M.Sc. I	15013	2 <sup>nd</sup>
3.	Ritu	M.Sc. II	12208	3 <sup>rd</sup>

#### PG Level

### **UG Level**

Sr. No.	Name	Class	Roll. No.	Position
1.	Aman	B.Com. (Hons.) III	8933	1 <sup>st</sup>
2.	Ansh	B.Sc. III	9425	2 <sup>nd</sup>
3.	Lal Babupal	B.A. I	13190	3 <sup>rd</sup>





## 2. (i) Opening of Add-On Course "Vedic Mathematics" (February 19, 2024)

*"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around us is numbers."* 

Sh. L. N. Hindu College, Rohtak (Haryana) Affiliated to M.D. University, Rohtak A Govt. Aided Post Graduate Co-Educational College Accredited by NAAC B Grade Ref. No2024 Jan 814 057 Dated:-30.01.2024 NOTICE This is to inform all the Students that Career Guidance and Placement Cell of our College in collaboration with Department of Mathematics is organizing a Lecture Series on Vedic Mathematics from 2nd week of February, 2024. Interested students may Register themselves by giving their names to Dr. Sunny Kapoor, Ms. Manju Aneja and Ms. Sonam latest by Feb. 05, 2024. Registration Fee :- Rs.500/- (All inclusive certificate and T-shirt) Dr. Seema. (B.C. M. CH). Find) An Dr. Nielhi (BRA F). 2.3. AnitA rincipal Anils - B.A.I. \$ 4 Arshein (basis) F. M. (B.A. VI sem.), Provile (B.A. VI sem.), Provil 5 6 7 8 9 10



30 hours Add-on course was organized by Career Guidance and Placement cell in the collaboration with Shiksha Sanskriti Utthan Nyas, New Delhi from 19<sup>th</sup> February 2024. The purpose of this course is to learn the techniques to the students to solve the problems in short time.

While presiding over this course, Dr. Anil Kumar Taneja said that Vedic Mathematics is the simplest system to solve mathematics. It helps in performing calculations 10 to 15 times faster than modern mathematics with no use of calculators. With the help of Vedic mathematics, problems can be solved mentally in a very short time, which boosts communication skills.

Dr Sunny Kapoor from Department of Mathematics was the coordinator of the 30 Days certificate course, while explaining the importance of Vedic mathematics, said that the techniques of Vedic mathematics contain tricks for doing fast calculations. This is a panacea which is capable of solving

maximum number of questions with intensity and accuracy in minimum time in any competitive examination.

Dr. Rakesh Bhatia having so many years' experiences was the resource person of this add on course. Explaining the importance of Vedic mathematics, he said that Vedic mathematics is the gift of Krishna Tirtha ji. It is a collection of invaluable techniques which not only helps in doing fast and accurate calculations but also creates interest in mathematics among the students and makes mathematics interesting.

He also informed the students about the syllabus of Vedic Mathematics course, the examination system and the employment opportunities available in this direction. In the end Dr. Meenakshi Gugnani thanked the keynote speaker. On this occasion Dr. Sandeep Kumar, Ms. Manju, Mrs. Madhu Vij, Ms. Sonam, Mrs. Priyanka Sahni, Mrs. Santosh were present.



# हिंदू कॉलेज में वैदिक मैथमेटिक्स में सर्टिफिकेट एड-ऑन कोर्स प्रारंभ

रोहतक, गिरीश सैनी (ऋषि की आवाज ब्युरो)। लालनाथ हिंदु कॉलेज के कैरियर गाइडेंस एवं प्लेसमेंट सेल व गणित विभाग के संयक्त तत्वाधान में शिक्षा संस्कृति उत्थान न्यास, नई दिल्ली के सहयोग से वैदिक मैथमेटिक्स में सर्टिफिकेट एड-ऑन कोर्स प्रारंभ किया गया। इस मौके पर प्राचार्य डॉ अनिल कुमार तनेजा ने कहा कि वैदिक मैथमेटिक्स गणित को हल करने की सबसे सरल प्रणाली है। यह आधुनिक गणित की तुलना में 10 से 15 गुना तेजी से



गणना करने में सहायता करता है. जिसमें कैलकुलेटर का कोई उपयोग

नहीं होता। प्रकोष्ठ संयोजिका डॉ सन्नी कपूर ने वैदिक गणित की

महत्ता बताते हुए कहा कि वैदिक गणित किसी भी प्रतियोगी परीक्षा में कम से कम समय में तीव्रता एवं शुद्धता के साथ अधिक से अधिक प्रश्नों को हल करने में सक्षम होता है। बतौर मुख्य वक्ता डॉ राकेश भाटिया ने कहा कि वैदिक गणित अमुल्य तकनीक का एक संग्रह है, जो न केवल तेज व सटीक गणना करने में सहायता करता है। बल्कि विद्यार्थियों में गणित के प्रति रुचि पैदा करने के साथ-साथ एवं गणित को मनोरंजक बनाता है।



वैदिक मैथमैटिक्स की महत्ता बताते डा. अनिल तनेजा।

# गणित हल करने की सबसे सरल वैटिक मैथमैटिक्स : तनेत

इस कोर्स की अध्यक्षता करते हुए डा. अनिल कुमार ऑन कोर्स के मुख्य वक्ता डा. राकेश भाटिया रहे।

उन्होंने वैदिक गणित की महत्ता बताते हुए कहा कि में सहायता करता है बल्कि विद्यार्थियों में गणित के प्रति वैदिक गणित की सहायता से समस्याओं को बहुत रूचि पैदा करने के साथ-साथ एवं गणित को मनोरंजक मंजू, सोनम, प्रियंका, मधु विज आदि मौजूद थे।

रोहतक, 19 फरवरी (स.ह.): श्री लालनाथ हिंदु की महत्ता बताते हुए कहा कि वैदिक गणित की तकनीकों कॉलेज के कैरियर गाइडेंस एवं प्लेसमेंट सेल व गणित में तीव्र गणना करने की युक्तियां होती हूँ। यह एक ऐसा विभाग के संयुक्त तत्वाधान में शिक्षा संस्कृति उत्थान रामबाण है जो किसी भी प्रतियोगी परीक्षा में कम से न्यास दिल्ली के सहयोग से एक सर्टिफिकेट एड-ऑन कम समय में तीव्रता एवं शुद्धता के साथ अधिक से कोर्स वैदिक मैथमैटिक्स कोर्स का शुभारंभ किया गया।/ अधिक प्रश्नों को हल करने में सक्षम होता है। इस एड

तनेजा ने कहा कि वैदिक मैथमैटिक्स गणित को हल करने की सबसे सरल प्रणाली है। यह आधुनिक गणित की तुलना 🛛 वैदिक गणित कृष्ण तीर्थ की देन है। यह अमुल्य तकनीक में 10 से 15 गुना तेजी से गणना करने में सहायता करता का एक संग्रह है जो न केवल तेज व सटीक गणना करने है, जिसमें कैलकुलेटर का कोई उपयोग नहीं होता है।

ही कम समय में मानसिक रूप से हल किया जा सकता 🛛 बनाता है। अंत में डा. मोनाक्षी गुगनानी ने मुख्य वक्ता है, जिससे संचार कौशल को बढावा मिलता है। इस का धन्यवाद किया। इस अवसर पर डा. संदीप कुमार प्रकोष्ठ की संयोजिका डा. सन्नी कपूर ने वैदिक गणित



वैदिक मैथमेटिक्स कोर्स के शुभारंभ पर मौजूद शिक्षक व विद्यार्थी । 💌 सौजन्य कालेज

रोहतकः हिंदू कालेज के करियर गाइडेंस एवं प्लेसमेंट सेल एवं गणित विभाग के संयुक्त तत्वावधान में शिक्षा संस्कृति उत्थान न्यास, दिल्ली के सहयोग से एक सर्टिफिकेट एड-आन कोर्स वैदिक मैथमेटिक्स कोर्स का शभारंभ किया गया। इसकी अध्यक्षता करते हुए डा. अनिल तनेजा ने कहा कि वैदिक मैथमेटिक्स गणित को हल करने की सबसे सरल प्रणाली है। यह आधुनिक गणित की तुलना में 10 से 15 गुना तेजी से गणना करने में सहायता करता है जिसमें कैलकुलेटर का कोई उपयोग नहीं होता है। प्रकोष्ठ की संयोजक डा. सन्नी कपूर ने वैदिक गणित की महत्ता बताते हुए कहा कि

वैदिक गणित की तकनीकों में तीव्र गणना करने की युक्तियां होती हैं। यह प्रतियोगी परीक्षाओं में कम से कम समय में तीव्रता एवं शुद्धता के साथ अधिक से अधिक प्रश्नों को हल करने में सक्षम होता है। एड आन कोर्स के मुख्य वक्ता डा . राकेश भाटिया ने बताया कि वैदिक गणित कृष्ण तीर्थ जी की देन है। यह अमूल्य तकनीक का एक संग्रह है जो न केवल तेज व सटीक गणना करने में सहायता करता है बल्कि विद्यार्थियों में गणित के प्रति रुचि पैदा करने के साथ-साथ एवं गणित को मनोरंजक बनाता है इस अवसर पर डा. मीनाक्षी गुगनानी डा . संदीप कुमार, मंजू, सोनम, प्रियंका, मधु विज आदि मौजूद रहे। (जासं)

## 2. (ii) Sessional Examination of Add-On Course "Vedic Mathematics" On (April 12, 2024)

Under the auspices of Career Guidance and Placement Cell and Mathematics Department in Shri Lal Nath Hindu College, an examination was organized for the evaluation of students under the 30 days Add-On Course - Vedic Mathematics, organized under the chairmanship of College Principal Dr. Anil Kumar Taneja.

Convenor Dr Sunny Kapoor said that Vedic mathematics is helpful to students in passing various competitive examinations because it contains techniques for fast calculations. Through this course, students will be able to add, subtract, multiply, divide large numbers, square root, cube root, product of numbers through various formulas of Vedic mathematics (Bijaank, Nikhilam, Akiken, Purveen, Dwandyoga, Nikilaam and Dhwajank etc.), have been able to solve problems like LCM, HCF in a very short period of time. 35 students are registered in this course. Along with students, teachers also participated enthusiastically in this course. Through this course, interest in mathematics increased among the students.

On this occasion, College Principal Dr. Anil Kumar Taneja ji while boosting the morale of the students said that such courses not only enhance the mathematical proficiency of the students but also create a strong foundation for them to pursue various careers in today's technologically driven world. Essential for career fields. On this occasion, Dr. Meenakshi Gugnani, Dr. Sandeep Kumar, Manju, Mrs. Madhu Vij, Sonam, Mrs. Priyanka Sahni, Mrs. Santosh were present.





### 2. (iii) Distribution of T-Shirts On (April 20, 2024)

T-shirts were distributed to the students under the 30-day Add-On Course "Vedic Mathematics" organized under the chairmanship of College Principal Dr. Anil Kumar Taneja under the auspices of Career Guidance and Placement Cell and Mathematics Department at Shri Lal Nath Hindu College. Worthy Principal told the benefits of this Course to Students and motivate them to implement the techniques to get the success in the various competitive exams. In this event, Dr Rashmi Chhabra, Mrs. Anila Batla, Dr. Sandeep Kumar, Manju, Sonam, Mrs. Priyanka Sahni were present.



## वैदिक गणित के एड ऑन कोर्स के तहत विद्यार्थियों को बांटी टी-शर्ट

चेतना संवाददाता रोहतक। लाल नाथ हिंदू कॉलेज के कैरियर गाइडेंस एवं प्लेसमेंट सेल तथा गणित विभाग के तत्वावधान में प्राचार्य डॉ अनिल कुमार



तनेजा की अध्यक्षता में आयोजित 30 दिवसीय एड ऑन कोर्स - वैदिक गणित के तहत विद्यार्थियों को टी-शर्ट वितरित की गई। सेल संयोजिका डॉ सन्नी कपूर ने बताया कि इस कोर्स के माध्यम से विद्यार्थी वैदिक गणित के विभिन्न सूत्रों के माध्यम से बड़ी बड़ी संख्याओं को जोड़ना, घटाना, गुणा, विभाजित, संख्याओं का वर्गमूल, घनमूल, गुणनफल, एलसीएम, एचसीएफ आदि समस्याओं को बहुत ही कम समय में हल करने में सक्षम हुए हैं। इस कोर्स में 35 विद्यार्थी पंजीकृत है। प्राचार्य डॉ अनिल कुमार तनेजा ने कहा कि इस तरह के कोर्स विद्यार्थियों की गणितीय दक्षता को बढ़ाते हैं। इस दौरान डॉ रश्मि छाबड़ा, अनिला बठला, डॉ संदीप कुमार, मंजू, सोनम, प्रियंका साहनी मौजूद रहे।



### 2. (iv) Closing Ceremony of Add-On Course "Vedic Mathematics" On (April 27, 2024)

Closing ceremony of the 30 days Add-On Course "Vedic Mathematics" was held under the chairmanship of Dr. Anil Taneja ji under the joint aegis of Career Guidance and Placement Cell and Mathematics Department at Shri Lal Nath Hindu College. Final Examination of the Course was also Conducted on the same day. Convenor Dr Sunny Kapoor said that in the thirty-day course, all the students completed the course with full hard work and dedication and performed very well in the examination. The successful and efficient conduct of this course was done under the guidance of Dr Sunny Kapoor and Manju. 34 students from M.Sc. (Mathematics), B.Sc., B. Com (Pass), B. Com (H), BBA, B.A. have participated in the course. Students' performance was evaluated by Practical test and on the basis of their results in the test, grade was provided. 32 students have successfully completed the course. Students were fully satisfied with the course content and content delivery. On this occasion, Principal Dr. Anil Taneja congratulated the staff members and students and said that along with learning Vedic Mathematics, you will benefit only by practicing it regularly. He also Distributed photo mugs to the students with affection. Dr. Meenakshi Gugnani, Dr. Sandeep Kumar, Sonam, Mrs. Madhu Vij were present on this occasion.







## 3. Power Point Presentation Competition (March 14, 2024)

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

Sh. L. N. Hindu College, Rohtak (Haryana) Affiliated to M.D. University, Rohtak A Govt. Aided Post Graduate Co-Educational College Accredited by NAAC B+ Grade Ref. No. 2024 Mar Stu 075 Dated:- 04.03.2024 Notice This is to inform all the students that Department of Mathematics is going to organize Power Point Presentation Competition on March 14, 2024 at 12:30 pm in Madhav Sabhagar. This competition aims to enhance your holistic growth in Computer, Mathematics and Communication and provide an opportunity to showcase your knowledge in these areas. Students should present only a 10-minute presentation. The presentation will cover the following topics:-. Role of Mathematics in Daily Life . Vedic Mathematics . Discrete Mathematics . Statistics . Applied Mathematics . Any Mathematical Topic To participate in Power Point Presentation, you can give your names to the following staff members latest by March 11, 2024. Ms. Manju Aneja Ms. Sonam Mrs. Priyanka Sahni We encourage all students interested in enhancing their skills to take part in this competition. It will be a rewarding experience and the top performers will be awarded certificates. rincipal

A Power Point Presentation Competition was organized by Department of Mathematics in Shri Lal Nath Hindu College under the chairmanship of Dr. Anil Taneja, Principal of the College. The topics of the competition were Vedic Mathematics, Statistics, Applied Mathematics, Discrete Mathematics, usefulness of Mathematics in daily life etc.

On this occasion, Coordinator and Head-Department of Mathematics, Dr. Meenakshi Gugnani said that Mathematics is a fundamental part of our daily life, using which we are able to solve complex problems ranging from simple calculations every day. It is a tool that helps us understand and navigate the world around us. She also narrated that the objective of this competition is to enable the students to explain various topics of mathematics logically, to increase self-confidence & to develop scientific approach.

In this competition, 17 students of the college participated & explained various topics of mathematics logically. The stage was conducted by Ms. Manju. The role of the jury was played by Dr. Meenakshi Gugnani, Dr. Sunny Kapoor, & Ms. Sonam.

In the end, College Principal Dr. Anil Taneja congratulated all the participants and while motivating the students he said that apart from mother tongue, Mathematics is the only subject which is related to our daily life in some way or the other. Mathematics is considered to be the lifeblood of business and the originator of science. Mathematics is also a subject which seems complex but such competitions help in simplifying the complex subject, increasing knowledge and developing intellectual power. Students should keep participating in such competitions. Mrs. Priyanka Sahni, Mrs. Santosh were also present in this occasion.

Sr. No.	Name	Class	Position
1.	Kesar	B. Com (Hons.) II	1 <sup>st</sup>
2.	Mohit	B.C.A. III	2 <sup>nd</sup>
3.	Prateek	B.C.A. I	3 <sup>rd</sup>
4.	Nitin	B.C.A. I	3 <sup>rd</sup>
5.	Neha	B.Com. I	Consolation

## Result





## पॉवर प्वाइंट प्रेज़ेंटेशन प्रतियोगिता में केसर प्रथम



उन्होंने बताया कि इस प्रतियोगिता का उद्देश्य विद्यार्थियों को गणित के विभिन्न विषयों को तार्किक रूप से स्पष्ट करने में सक्षम बनाना, आत्मविश्वास बढ़ाना, वैज्ञानिक दृष्टिकोण बिकसित करना रहा। इस प्रतियोगिता में 17 विद्यार्थियों ने गणित के विभिन्न विषयो को तार्किक रूप से स्पष्ट किया। इस प्रतियोगिता में केसर प्रथम, मोहित दूसरे तथा नितिन व प्रतीक तीसरे स्थान पर रहे। नेहा को सांत्वना पुरस्कार मिला।

रोहतक, चेतना संवाददाता। लाल नाथ हिंदू कॉलेज के गणित विभाग द्वारा प्राचार्य डॉ अनिल कुमार तनेजा की अध्यक्षता में पॉवर प्वाइंट प्रेज़ेंटेशन प्रतियोगिता का आयोजन किया गया। संयोजक एवं गणित विभागाध्यश्व डॉ मीनाश्री गुगनानी ने बताया कि इस प्रतियोगिता के विषय वैदिक मैथमेटिक्स, स्टैटिस्टिक्स, एह्लाइड मैथेमेटिक्स, डिस्क्रीट मैथमेटिक्स, दैनिक जीवन में गणित की उपयोगिता आदि रहे।