

# MATHOMANIA

Newsletter from the Department of Mathematics



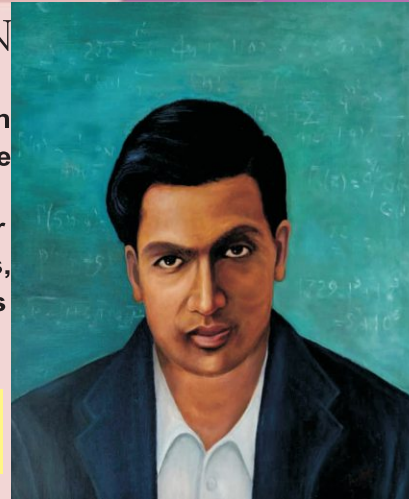
ISSUE-2 | 2021-22

# 1729

The smallest number expressible as the sum of two cubes in two different ways.

$$1729 = 1^3 + 12^3 = 9^3 + 10^3$$

**S**RINIVASA RAMANUJAN born 22 December 1887 – 26 April 1920 was an Indian mathematician. Though he had almost no formal training in pure mathematics, he made substantial contributions to mathematical analysis, number theory, infinite series, and continued fractions, including solutions to mathematical problems then considered unsolvable.



1729 is the smallest taxicab number, and is variously known as Ramanujan's number or the Ramanujan–Hardy number.

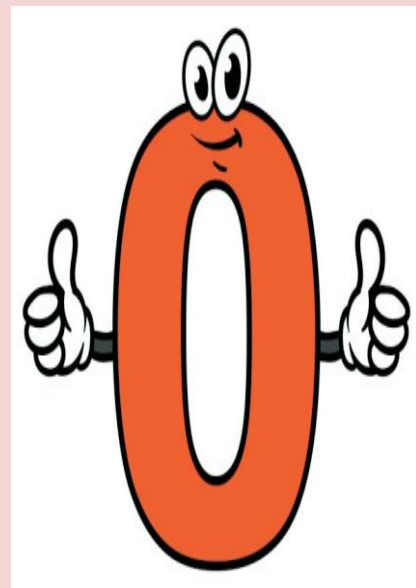
The number 0 was invented much later than all the other natural numbers. Brahmagupta, a mathematician and Hindu astronomer, invented the concept of zero in the 7th century. Over centuries, several other countries learnt the idea of zero and started using it in mathematics.

## CONSTANT OF THE ISSUE

Brahmagupta gave some rules regarding addition and subtraction with zero, but he couldn't explain anything about division.

In English, the word 'zero' was first used in the year 1604.

The Roman Numerals don't represent 0 as a number. This is because the ancient Romans didn't consider zero as a number.



The major credit for zero being popular in the whole world today goes to Leonardo de Pisa (best known as Fibonacci). In his book, he introduced the Fibonacci numbers and showed the importance of zero.

# THEME

EDITOR'S  
NOTE

1

FROM  
COORDINATOR'S  
DESK

2

MESSAGES

3

MATHMAGICIANS  
SINE OF THE TIMES

4

PEN-O-STROKES

5

PHOTOPEDIA

6

ACHIEVEMENTS

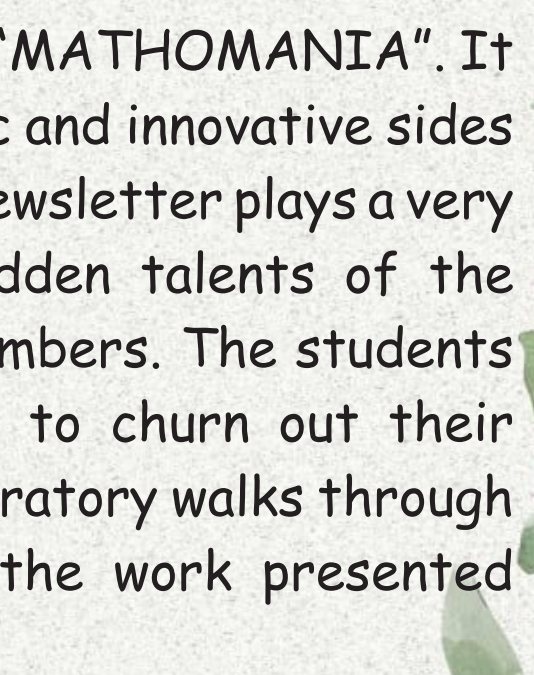
7



# EDITOR'S NOTE

*“An analytical mind with a passion for learning leads an individual to achieve success and glory.”*

Department of Mathematics feels immense joyful and satisfactory to finally introduce the 2<sup>nd</sup> volume of our very own departmental newsletter “MATHOMANIA”. It portrays the co-curriculum, artistic and innovative sides of the mathematics scholars. The newsletter plays a very crucial role as it exposes the hidden talents of the students as well as the faculty members. The students have put in their utmost efforts to churn out their creativity. As you discover on exploratory walks through the pages, we hope you cherish the work presented before you.



# FROM COORDINATOR'S DESK

Dear readers,

*It is a moment of great joy and pleasure to know that the Department of Mathematics is releasing the 2<sup>nd</sup> volume of its newsletter "MATHOMANIA". It showcase the different activities of the department as well as the students participation and achievements.*



*As the coordinator of the department, I would like to thank all faculty members and students for their unending timely support towards the department. I must congratulate all the members of the editorial board for bringing up this issue in a better shape.*

**Dr. Bibudhendu Pati**  
**Coordinator, Mathematics**

# Messages...

## FROM THE PEN OF VICE CHANCELLOR



*I am delighted to note that the Department of Mathematics publishes 2<sup>nd</sup> issue of its newsletter "MATHOMANIA 2022". This is not only a visual representation of all achievements and activities of the Department but also will definitely inspires future batches of students to have more participation in the Departmental as well as other extracurricular activities. I wish a grand success of MATHOMANIA-2022.*

**Prof. Aparajita Chowdhury**  
**HON'BLE VC, RDWU**

## FROM THE DESK OF CHAIRPERSON P.G. COUNCIL

*It is my pleasure to note that the Department of Mathematics is releasing its 2<sup>nd</sup> volume of Newsletter "MATHOMANIA". It is a pride in my part, as Chairman, P.G. Council, to place in record, that Department of Mathematics with limited resources is spreading the knowledge of Mathematics through this newsletter "MATHOMANIA".*



*Documenting the departmental activities in an important aspect, not only helps in record keeping but also it results in visual representation of our activities.*

**Prof. Sasmita Mohanty**  
**C.P.G.C., RDWU**

# MATHMAGICIANS SINE OF THE TIMES



DR. BIBUDHENDU PATI



DR. RASHMI MISHRA



DR. SWORUP KUMAR DAS



MRS. SUBHASHREE RAM



MR. SATYARANJAN PRADHAN

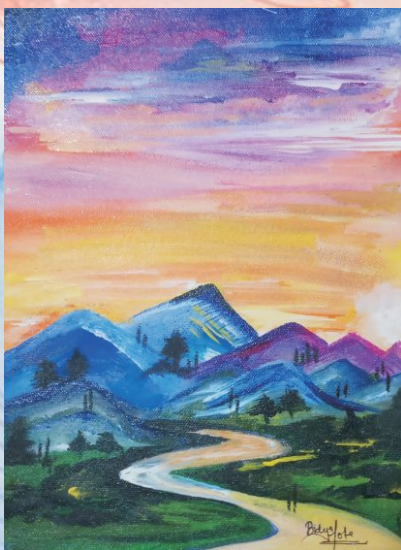
# PEN-O-STROKES

## MATHEMATICS, THE GREATEST BLESSINGS

Anukampa Samal, UG 1st year



SWAHA SAINA PATNAIK , U.G. 2<sup>nd</sup> YEAR



BIDYA HOTA, U.G. 1<sup>st</sup> YEAR

Numbers, equations and logic so sound,  
Mathematics is a treasure that's truly profound.  
From basic addition to calculus and more,  
It's a subject that never becomes a bore.

The beauty of math lies in its precision,  
It's ability to solve problems with decision.  
It's a language of its own, with symbols and signs,  
That helps us to see the world with clearer lines.

Geometry teaches us shapes and their relations,  
Trigonometry helps us find angles and their formations.  
Algebra lets us solve equations with ease,  
Calculus helps us understand motion and degrees.

With math, we can measure, predict and create,  
It's the foundation of science engineering and trade.  
From building bridges to sending rockets to space,  
Mathematics is essential to progress at any pace.

It teaches us discipline, patience and more,  
To think logically, and to never ignore,  
The possibilities that numbers can hold,  
And the wonders that can unfold.

So let us embrace math with open arms,  
And unlock the mysteries with its charms.  
For in this subject lies a world of wonders,  
And a universe of possibilities to ponder.



# SHE KNOWS

Anusaya Moharana, UG 1st year



SUCHARITA PARIDA, U.G. 1<sup>ST</sup> YEAR



SMRUTI REKHA DAS, U.G. 2<sup>ND</sup> YEAR

She Knows,  
She has come from the lower part of  
society,  
Yet she will go on.

She Knows,  
The eyes of people is full of dirt sides  
towards her,  
Yet she will come out of the house.

She Knows,  
The path is full of thorns where she is  
walking,  
Still she will go on that path.

She Knows,  
People will say her too bad words to  
discourage,  
Still she will talk with no fear.

She Knows,  
People will also throw mud if needed,  
Still she will not stop.

She Knows,  
The society won't let her dream big,  
Still she will dream big.

She Knows,  
If needed her own relatives cut off her  
wings,  
Still she will fly to touch the sky

She Knows,  
There will be difficulties along the way,  
And these will try to beat her,  
Still she will win.

# AN INFINITE JOURNEY

Swaha Saina Pattnaik, UG 2nd year

She takes rebirth, as a world emerges within  
Mark of a new journey that begins  
The only period when she is happy for gaining weight  
Everyday on the calendar she crosses another date  
She can feel, she can sense, she can hear  
Of the soul inside, that beats clear  
Smilingly says "ouch" when the baby kicks  
Holding her belly, memories she clicks  
She sacrifices her choice & focusses on you  
A routine she follows whole 9 months through  
She talks & teaches her, even when she is inside  
In a single body, two hearts & soul coincide  
As it enlarges, she could sense her growing  
Two fits in a single piece of clothing  
Carefully she spends & here she experiences a pain  
"For you, everything I will go through", she explains  
She hears the cry for the initial while  
For her crying, only once could she smile  
Hearts come closer when she rests her on her chest  
Holding her in her arms, she feels blessed  
She talks and shares different stories & tales  
She makes her learn everything in details  
She feeds her, she plays with her, she makes her sleep  
The relation that grows deeper and deep  
She scolds and loves in equal amount  
Every word spoken by her, do count  
She gives her strength, support and power  
Deeply she cares for her every hour  
She gives her wings to fly in the infinite sky  
She makes her feel like she is the star in her eye  
With passing time, she sees her grow into young and teen  
Every phase with her has she seen  
Years later, seeing her daughter resembling her  
Nostalgic, she remembers how her days were,



JYOTSNA RANI PRADHAN U.G. 1<sup>ST</sup> YEAR



SMRUTI SMARANIKA PALAI, U.G. 1<sup>ST</sup> YEAR



SMRUTI SMARANIKA PALAI, U.G. 1<sup>ST</sup> YEAR



SOUMYASHREE SAHOO, U.G. 1<sup>ST</sup> YEAR

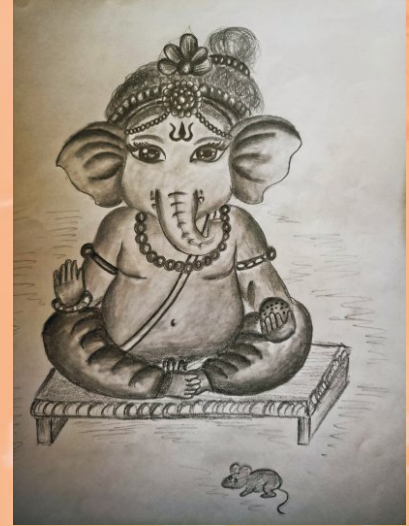
## कुछ मील घर से दूर

Bisakha Mohapatra, UG 2nd year

कुछ फ़ौजी निकले थे घर से,  
उनको महसूस करने आज भी घरवाले तर्से।  
सालों से देखने को उनकी एक झलक,  
दरवाज़े पर खड़े नहीं झपकती ये पलक।  
पास होकर भी हो तो तुम मुझसे दूर,  
घर से निकले उन फ़ौजियों का क्या था कसूर।  
उठे ना कभी किसी बच्चे के सर से पिता का साया,  
गलत करने से पहले जग जाए तुम्हारे अंदर की माया।  
ना कभी मिटे ये सिंदूर और टूटे उस स्त्री के कंगन,  
ना कभी आए कोई शव किसी के आँगन।  
भारतीय इतहास में छपा ये काला दिन 14 फ़रवरी,  
आज भी आंखे हैं नम और दिल हैं भारी।



SUDESHNA MOHAPATRA, U.G. 1<sup>ST</sup> YEAR



DIVYA DISHA SAHOO, U.G. 1<sup>ST</sup> YEAR

## OH PAPA! CAN I ...

~ Anusaya Maharana, U.G. 1st year

Dear Papa,  
When I used to fall in childhood,  
You used to take me in your arms.  
But when you fall into somewhere in old age,  
Can I pick you up?

When I can't sleep at night,  
You used to tell a story to me.  
But when you can't sleep,  
Can I put you to sleep?

When I had a fever ,  
You stayed up all night taking care of me.  
But when you will be sick,  
Can I take care of you?

When I break down,  
You make me understand.  
But when you will be harass,  
Can I make you understand?

I make as many mistakes as I can,  
You forgive me and love me like never before.  
But when you get older,Papa  
Can I give that much love to you?

# PHOTOPEDIA



OMS AT UTKAL  
UNIVERSITY, 2022

ANNUAL SEMINAR, 2021



ANNUAL SEMINAR, 2022



**TEACHERS' DAY  
CELEBRATION, 2021**



**MATHEMATICS DAY  
CELEBRATION, 2021**

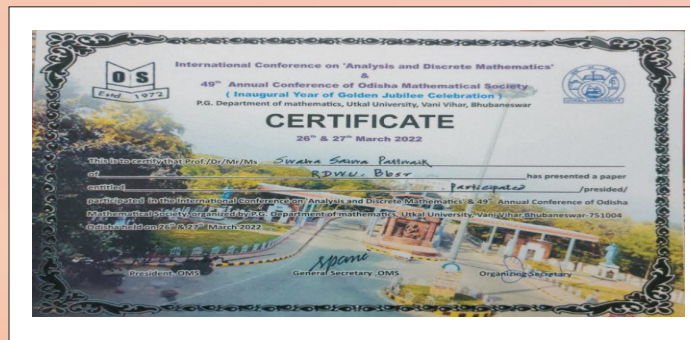


**BATCH 2019 FAREWELL  
CELEBRATION, 2022**

# ACHIEVEMENTS



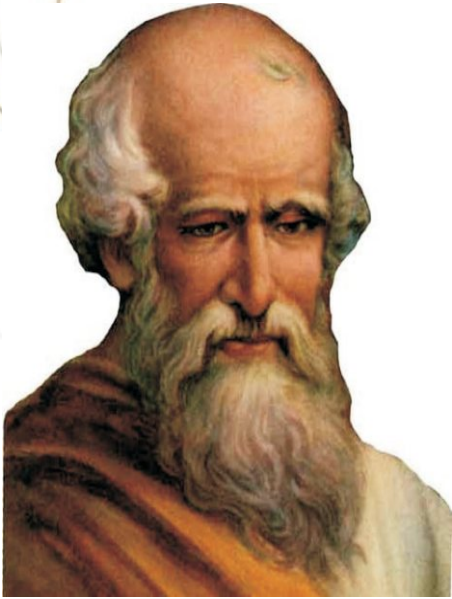
Priyadarshinee Das, U.G. 2<sup>nd</sup> year  
receiving prize on National Science Day



Swaha Saina Pattnaik, U.G. 2<sup>nd</sup> year  
received participation certificate in 49<sup>th</sup> annual  
conference of OMS at Utkal University



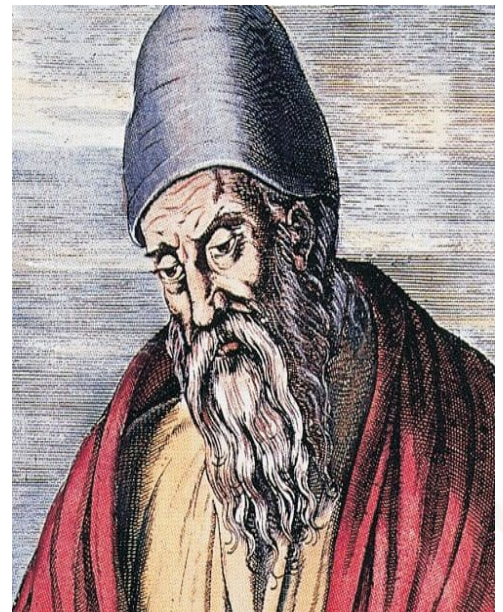
Priyadarshinee Das, U.G. 2<sup>nd</sup> year  
received participation certificate in 49<sup>th</sup> annual  
conference of OMS at Utkal University



Archimedes was a Greek Scientist, a great mathematician, and a Physician. He also worked his entire life in search of discovering mathematical formulas that are related to Physics. The best contribution of Archimedes in mathematics is known as the invention of compound pulleys, antiquity, and screw pump. Students of class X have to study these chapters of compound pulleys and antiquity.

## ARCHIMEDES

Euclid was one among the famous mathematicians, and he was known as the 'Father of Geometry.' His famous Geometry contribution is referred to as the Euclidean geometry, which is there in the Geometry chapter of class IX. He spent all his life working for mathematics and set a revolutionary contribution to Geometry.



## EUCLID