MATH - MAZE

## A Subject Based Yearly News Letter

## ALGEBRA



Released by
PG Department of Mathematics VELLALAR CDLLEGE FIR WDMEN (Autanomous)
"College with Potential for Excellence"
(Reaccredited with 'A' Grade by NAAC and Affiliates to Bharathiar University, Coimbatore)

Thindal, Erode - 638012, Tamil Nadu.

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* Solutions to the problems are invited, at the earliest. The names of the readers who turn out first in providing answers to the problems will be published and the solutions will be published in the forthcoming issue.



## FROM THE EDITORIAL DESK

The Department of Mathematics has been established in the year 2003. It offers B.Sc., Mathematics with Computer Applications, B.Sc., Mathematics, M.Sc., Mathematics and M.Phil Programme.

The Department has to its credit, two National Seminars, two National Conferences, an Intercollegiate meet and International seminar organized on $11^{\text {th }} \& 12^{\text {th }}$ August $2005,30^{\text {th }} \& 31^{\text {th }}$ August 2007, $9^{\text {th }}$ January 2014, $9^{\text {th }}$ February 2017, $13^{\text {th }}$ September 2011 and $10^{\text {th }}$ January 2018 respectively. It has celebrated National Mathematical Year on $24^{\text {th }}$ August 2012. On memorial of Ramanujan's birthday Math Expo has been organized by the Department since 2013.

The Department is enriched with twenty one faculty members having wide knowledge in their specializations like Differential Equations, Fuzzy Set Theory, Intuitionistic Fuzzy Set, Graph Theory and Operations Research. The Department has completed two minor research projects funded by UGC. The Department has produced 53 M.Phil Research Scholars from 2009 onwards.

The Department adds one more feather by publishing a Subject Based Yearly News Letter incorporating History of Mathematicians, Crossword Puzzles, Cross out Crossword Puzzles, Solutions to the Problems of Previous issue, Departmental Activities and Placement details of the Students of Mathematics.

We welcome the suggestions and criticisms for improvement in the content and presentation of materials of "MATH-MAZE".

## EDITORIAL DESK



## HISTORY OF ALGEBRA


#### Abstract

Algebra is a branch of Mathematics, emerged at the end of the $\mathbf{1 6}^{\boldsymbol{t h}}$ century in Europe, with the work of Francois Viete. Algebra can essentially be considered as doing computations similar to those of arithmeticbut with non-numerical mathematical objects. The word algebra is a Latin variant of the Arabic word al-jabr. This came from the title of a book, Hidab al-jabrwalmuqubala, written in Baghdad about 825 A.D. Eventually the Muqabalah was left behind, and this type of Mathematics became known as algebra in many languages.


## ETYMOLOGY

The word "algebra" is derived from the Arabicword الجبرal-jabr, and this comes from the treatise written in the year 830 AD by the medieval Persian Mathematician, who was Muhammad Ibn Musa al -Khwarizmi, whose Arabic title, Kitab al-muhtasarfihisab al-gabrwa-lmuqabala, can be translated as "The Compendious Book on Calculation by Completion and Balancing". The treatise provided for the systematic solution of linearand quadratic equations.

According to the history, it is not certain just what the terms al-jabr and muqabalah mean, but the usual interpretation is similar to that implied in the previous translation. The word 'al-jabr' presumably meant something like 'restoration' or 'completion' and seems to refer to the transposition of subtracted terms to the other side of an equation.After long time of alKhwarizmi is found in Don Quixote, where the word 'algebrista' is used for a bone-setter, that is, a 'restorer'. The term is used by al-Khwarizmi to describe the operations that he introduced, "reduction" and "balancing".

If people do not believe the mathematics is simple, it is only because they do not realize how complicated life is.

\author{

- John Von Neumann
}


## STAGES OF ALGEBRA

The stages in the development of symbolic algebra are approximately as follows:

- Rhetorical algebra, in which equations are written in full sentences. Rhetorical algebra was first developed by the ancient Babylonians and remained dominant up to the $16^{\text {th }}$ century.
- Syncopated algebra, in which some symbolism is used, but which does not contain all of the characteristics of symbolic algebra. Syncopated algebraic expression first appeared in Diophantus Arithmetica ( $3^{r d}$ centuryAD), followed by Brahmagupta's Brahma Sphuta Siddhanta( $7^{\text {th }}$ century).
- Symbolic algebra, in which full symbolism is used. Early steps towards this can be seen in the work of several Islamic Mathematicianssuch as Ibn Al-Banna (13 ${ }^{\text {th }}$ $14^{\text {th }}$ centuries) and Al-Qalasadi ( $15^{\text {th }}$ century), although fully symbolic algebra was developed by Francois Viete ( $16^{\text {th }}$ century). Later, Rene Descartes $\left(17^{\text {th }}\right.$ century) introduced the modern notation and showed that the problems occurring in geometry can be expressed and solved in terms of algebra (Cartesian geometry).

In between the rhetorical and syncopated stages of symbolic algebra, a geometric constructive algebra was developed by classical Greek and Vedic Indian Mathematicians in which algebraic equations were solved through geometry.

## INDIAN ALGEBRA

The Indian Mathematicians were active in studying about number systems. The earliest known Indian Mathematical documents are dated to around the middle of the first millennium BC. The recurring themes in Indian Mathematics are determinate and indeterminate linear and quadratic equations, simple mensuration and Pythagorean triples.

Brahmagupta was an Indian mathematician who authored Brahma Sphuta Siddhanta. In his work Brahmagupta solves the general quadratic equation for both positive and negative roots.

Mathematics is the most beautiful and most powerful creation of the human spirit.
-Stefan Banach

Bhaskara II (1114- c.1185) was the leading mathematician of the $12^{\text {th }}$ century. In Algebra, he gave the general solution Pell's equation. He is the author of Lilavati and VijaGantia, which contain problems dealing with determinate and indeterminate linear and quadratic equations and Pythagorean triples. Also he fails to distinguish between exact and approximate statements.

## Important Developments in the History of Algebra

- 240 BC - Eratosthenes uses his sieve algorithm to quickly isolate prime numbers.
- 370 BC - Eudoxus states the method of exhaustion for area determination.
- 550 BC - Brahmagupta gave zero a numeral representation in the positional notation of Indian Numeral System.
- 1761 - Thomas Bayes proves Baye's theorem.
- 1762 - Joseph Louis Lagrange discovers the divergence theorem.
- 1895 - Henri Poincare publishes paper "Analysis Situs" in which the concept of modern topology is stated.
- 1912 - Luitzen Egbertus Jan Brouwer presents the Brouwer fixed-point theorem.
- 1929 - Emmy Noether introduces the first general representation theory of groups and algebras.
- 2009 - Fundamental lemma (Langland's program) had been proved by Ngo Bao Chau.
- 2015 - Terence Tao solved The Erdos Discrepancy Problem.

Algebra is identified with the theory of equations, the Greek Mathematician Diophantushas traditionally been known as the "Father of Algebra" but in more recent times there is much debate over whether al-Khwarizmi, who founded the discipline of Al-Jabr, deserves that title instead. Those who support Diophantus point to the fact that the algebra found in Al-Jabr is slightly more elementary than the algebra found in Arithmetica and that Arithmetica is syncopated while Al-Jabr is fully rhetorical. They also point to his treatment of an equation for its own sake and in a generic manner, and it does not simply emerge in the course for solving the problem, but is specifically called onto in defining an infinite class of problems.

Mathematicians are born, not made.
-Henri Poincare

## ALGEBRA - BASIC DEFINITIONS

## ABSTRACT ALGEBRA

The subject of abstract algebra is concerned with the many different algebraic structures such as groups, rings and fields involving sets of elements with particular operations satisfying certain axioms.

## LINEAR ALGEBRA

The topics of linear equations, matrices, vectors of the algebraic structures are known as a vector space is intimately linked and this area of Mathematics is known as linear algebra.

## SET

A set is a collection of distinct objects, considered as an object in its own right. For example, the numbers 2,4 , and 6 are distinct objects when considered separately, but when they are considered collectively they form a single set of size three, written as $\{2,4,6\}$.

## DISJOINT

Two sets are said to be disjoint if their intersection is empty, that is the null set.

## MATRIX

A matrix is a rectangular array of numbers, symbols or expressions, arranged in rowsand columns. For example, the dimensions of the matrix below are $2 \times 3$ (read "two by three"), because there are two rows and three columns:

$$
\left[\begin{array}{ccc}
1 & 3 & 4 \\
2 & 6 & 5
\end{array}\right]
$$

## SQUARE MATRIX

A matrix that has the same number of rows and columns.

Life is good for only two things, discovering mathematics and teaching mathematics.
-Simeon Poisson

## FUNCTION

A function (or map or mapping) $f$ from A to B (written as $f: \mathrm{A} \rightarrow \mathrm{B}$ ) to each $a \in \mathrm{~A}$ exactly and one element $b \in \mathrm{~B}, b$ is called the value of the function at $a$ or the image of $a$ and is usually written as $f(a)$.

## ONE-ONE MAPPING

A one-to-one function is a function that preserves distinctness: it never maps distinct elements of its domain to the same element of its co-domain. In other words, every element of the function's co-domain is the image of at most one element of its domain

## ON-TO MAPPING

The function is onto if each element of the co-domain is mapped to by at least one element of the domain. (That is, the image and the co-domain of the function are equal.) A surjective function is a surjection. Notationally:
$\forall y \in Y, \exists x \in X$ such that $y=f(x)$

## HOMOMORPHISM

A mapping $\varphi: \mathrm{R} \rightarrow \mathrm{R}^{\prime}$ is said to be a homomorphism if

1) $\varphi(a+b)=\varphi(a)+\varphi(b)$
2) $\varphi(a b)=\varphi(a) \cdot \varphi(b) \forall a, b \in \mathrm{R}$.

## AUTOMORPHISM

A one-to-one correspondence, between the elements of a set onto itself, is said to be automorphism.

## ISOMORPHISM

A homomorphism of $R$ into $R^{\prime \prime}$ is said to be an isomorphism if it is a one-to-one.

## ISOMORPHIC

Two rings are said to be isomorphic if there is an isomorphism of one onto the other.

Mathematics is written for Mathematicians.

## FIELD

A field is a set on which addition, subtraction, multiplication and division are defined, and behave as when they are applied to rational and real numbers. A field is thus a fundamental algebraic structure, which is widely used in algebra, number theory and many other areas of mathematics.

## VECTOR SPACE

A non-empty set V is said to be a vector space over a field F , if V is an abelian group under an operation which we denote by ' + ',., , subject to the following conditions.
i) $\alpha(v+w)=\alpha v+\alpha w)$
ii) $(\alpha+\beta) v=\alpha v+\beta v$
iii) $\alpha(\beta v)=(\alpha \beta) v$
iv) 1. $v=v \forall \alpha, \beta \in F, v, w \in V$

## BASIS

A set of elements in a vector space V is called a basis, or a set of basic vectors, if the vectors are linearly independent and every vector in the vector space is a linear combination of the set.

## ORTHOCENTRE

A point in a triangle that is the point of intersection of the perpendicular lines from vertex to the opposite sides.

## ORTHOGONAL BASIS

A basis for a vector space in which the components of the basis are mutually orthogonal is known as orthogonal basis.

## CANONICAL BASIS

The set of orthogonal unit vectors which form the simplest basis n-dimensional Euclidean space. In 3-dimensional space the vectors $i, j, k$ in the directions $o x$, oy and $o z$ form the canonical basis.

Pure mathematicians just love to try unsolved problems - they love a challenge.

## PERMUTATION

Permutation refers to the different ways of arranging a set of objects in a sequential order. ODD PERMUTATION

A permutation $f \in S_{n}$ is called $\boldsymbol{o d d}$ if and only if it can be written as a product of an odd number of transpositions.

## EVEN PERMUTATION

The rearrangement of the original ordering which can be obtained by an even number of exchanges of pairs of elements.

The only way to learn mathematics is to do Mathematics.

- Paul Halmos


## KNOW YOUR MATHEMATICIAN

## RENE DESCARTES



Rene Descartes, French Mathematician and Philosopher were born in 1596. It was partly because of his contribution that western philosophy and Mathematics flourished. In recognition of his contribution, he is often referred as "Father or founder of modern philosophy". He is also considered as precursor of rationalist school of thought.

In Mathematics, his contribution lies chiefly in geometry, so he is known as Father of analytical geometry. His main achievement was to bridge the gulf between algebra and geometry. With regard to algebra, he explained in detail that how algebraic equations can be expressed and explained through use of geometrical shapes. His major contribution lies in bringing forth coordinate system that also bears his name. This Cartesian coordinate system tended to explain the algebraic equations through geometrical shapes. He "Invented the convention of representing unknowns in equations by $\boldsymbol{x}, \boldsymbol{y}$ and $\boldsymbol{z}$ ". It was his work on calculus and later it was used by Newton, thus evolving a new branch of Mathematics. Besides that, he also invented rule of signs to establish the positive and negative roots of polynomial. He died in $\mathbf{1 6 5 0}$ in Stockholm, Sweden.

## JOSEPH FOURIER



Joseph Fourier was a French Mathematician and Physicist born in Auxerre and best known for initiating the investigation of Fourier series and their applications to problems of heat transfer and vibrations. The Fourier transform and Fourier's law are also named in his honour. Fourier is also generally credited with the discovery of the greenhouse effect.

In Mathematics, Fourier claimed that any function of a variable, whether continuous or discontinuous, can be expanded in a series of sines of multiples of the variable. Though this result is not correct without additional conditions, Fourier's observation that some discontinuous functions are the sum of infinite series was a breakthrough. The question of determining when a Fourier series converges has been fundamental for centuries. Joseph-Louis Lagrange had given particular cases of this (false) theorem, and had implied that the method was general, but he had not pursued the subject. Peter Gustav Lejeune Dirichlet was the first to give a satisfactory demonstration of it with some restrictive conditions. This work provides the foundation for what is today known as the Fourier transform. He died on May 16, 1830 in Paris.

Mathematics compares the most diverse phenomena and discovers the secret analogies that unite them.

## NIELS HENRIK ABEL



Niels Henrik Abel was born in $5^{\text {th }}$ August 1802 and was a Norwegian Mathematician who made pioneering contributions in a variety of fields. His most famous single result is the first complete proof demonstrating the impossibility of solving the general quintic equation in radicals. This question was one of the outstanding open problems of his day, and had been unresolved for 250 years. He was also an innovator in the field of elliptic functions, discoverer of Abelian functions. Despite his achievements, Abel was largely unrecognized during his lifetime; he made his discoveries while living in poverty and died at the age of 26.

Abel showed that there is no general algebraic solution for the roots of a quintic equation, or any general polynomial equation of degree greater than four, in terms of explicit algebraic operations. To do this, he invented (independently of Galois) a branch of Mathematics known as group theory, which is invaluable not only in many areas of Mathematics, but for much of physics as well. Abel sent a paper on the unsolvability of the quintic equation to Carl Friedrich Gauss, who proceeded to discard without a glance what he believed to be the worthless work of a crank. At the age of 16, Abel gave a rigorous proof of the binomial theorem valid for all numbers, extending Euler's result which had held only for rationals.

Mathematics reveals its secrets only to those who approach it with pure love, for its own beauty.

- Archimedes


#### Abstract

Abel wrote a fundamental work on the theory of elliptic integrals, containing the foundations of the theory of elliptic functions. While travelling to Paris, he published a paper revealing the double periodicity of elliptic functions, which Adrien-Marie Legendre later described to Augustin-Louis Cauchy as "a monument more lasting than bronze" (borrowing a famous sentence by the Roman poet Horatius). The paper was however, misplaced by Cauchy.

While in abroad, Abel had sent most of his work to Berlin to be published in the Crelle's Journal, but he had saved what he regarded as his most important work for the French Academy of Sciences, a theorem on addition of algebraic differentials. The theorem was put aside and forgotten until his death. While in Freiberg, Abel did research in the theory of functions, particularly, elliptic, hyper elliptic, and a new class known as abelian functions.

In 1823, Abel wrote a paper titled "a general representation of the possibility to integrate all differential formulas" (Norwegian: en alminnelig Fremstilling af Muligheten at integrere allemulige Differential-Formler). He applied for funds at the university to publish it. However the work was lost, while being reviewed, never to be found thereafter Abel said famously of Carl Friedrich Gauss's writing style, "He is like the fox, which effaces his tracks in the sand with his tail". He died in 1829, Paris.


I have hardly ever known a mathematician who was able to reason.

- Stephen Hawking



## RIGHT TO LEFT:

1. $\qquad$ equations are necessary condition for a complex function to be analytic.
2. A matrix that is equal to its own conjugate transpose is called $\qquad$ .
3. Rectification of a curve is used to determine the length of an irregular $\qquad$ (Shuffled).
4. $\qquad$ is an irrational number.
5. $\qquad$ is one of the decomposition method for solving matrix in which lower and upper triangular matrix are formed.
6. The term $\qquad$ is also used to refer to the identity element of the ring.

Mathematics is the art of giving the same name to different things.

## LEFT TO RIGHT:

4. $\qquad$ is always specified relative to an ordered basis.
5. $A=\overline{\mathrm{A}}($ Conjugate of A$)$ is possible only when A is $\qquad$ (Shuffled).
6. If an isomorphism exists between two functions then they are $\qquad$ .
7. This is a function that interchanges the dependent and independent variables of another function $\qquad$ .
8. An $\qquad$ element which is not smaller than any other element in the set.

## UP TO DOWN:

1. Real part of $e^{i \theta}$ can also be written as $\theta$ $\qquad$ .
2. $\qquad$ is a structure preserving a map between two algebraic structures of the same type such as two groups, two rings and two vector spaces.
3. A $\qquad$ is necessarily an integral domain. (Shuffled)
4. The $\qquad$ algorithm is an efficient method for computing the GCD of two numbers.
5. In a ring theory, $\qquad$ is a special subset of a ring. (Shuffled)

## DOWN TO UP:

5. A commutative ring is a $\qquad$ in which multiplication operation is commutative.
6. If A is a square matrix with $A=A^{T}$, then Ais $\qquad$
7. $\qquad$ ring is also called as residue class ring.

Mathematics is the alphabet in which god has written the universe.

## CROSS OUT CROSSWORD PUZZLES

WLS MMS E QUE NCEMBZ
D QOUS UBTRACTYS WB
B I L L O C O YEAS UMMER
E HVTREDUCETHHTAM
T VEI Q A MGIS TI C U I C
J EAP D WCKPI L S O J O F
N S P L J E A XRQ MOFNS O
O COYUMEAOYCLJ H A B
I HLVNAGCCFNUEXHL
T OYVFOTLAPGTXEGN
A ONCLS I ELAUI P Y R L
MLOCEI VTTWZOOAOB
MDMRTKDECDGNNCWA
US I MP L I F YA G WEE T D
S EARBEGLAXRSNDHD
S PLNOI T AUQEF T WE N

1. Integration is a form of $\qquad$ .
2. A variable with its $\qquad$ gives the real part of the corresponding variable.
3. Inverse of $A$ is called the $\qquad$ of A.
4. Trigonometric functions, exponential functions, complex functions are one of the elementary $\qquad$ functions.
5. Inverse of logarithm is $\qquad$ .
6. A term which contains both numerator and denominator is called $\qquad$ .
7. Which function is used to get ' $i \theta$ ' by using $e^{i \theta}$ ?

Mathematics is the music of reason.
8. The inverse of addition is $\qquad$ .
9. Abu Ja'far Muhammad ibn Musa-al-Khwarizmi is the father of $\qquad$ .
10. When an equal sign is added to an expression, it becomes an $\qquad$ .
11. Complement of irrational number is $\qquad$ number.
12. Higher order degree equations are called $\qquad$ .
13. By adding complementary function and particular integral, we get the general $\qquad$ .
14. An operator which is used in fraction is $\qquad$ .
15. $\qquad$ of positive divisors of $n$ is denoted by $\tau(n)$.

A Mathematician who is not also something of a poet will never be a complete mathematician.

- Karl Weierstrass


## FOSS FOR ALGEBRA

## GEOGEBRA



Geogebra is a powerful platform that helps students learn math effectively and solve math problems on different topics that include vectors, calculus, linear programming, algebra, complex numbers and statistics. Geogebra allows us to directly enter and manipulate equations and coordinates, enabling us to plot functions, work with sliders to investigate parameters; find symbolic derivatives and use powerful commands like Root or Sequence.

Mathematicians stand on each other's shoulders.

## SAGEMATH



Sagemath is an open source and free software that helps students with general, applied, advanced and pure mathematics. This includes topics like calculus, cryptography, algebra, advanced number theory and more. Sagemath uses many software packages and smoothly assimilates their features for a common usage. It is more suited for research, studies and education.

Mathematics is the door and key to the sciences.

## SCILAB



Scilab is free and open source software which provides a platform for numerical computation. It features a top-class programming language that is used for the progressive data structure and 2D \& 3D graphical options. It includes a wide variety of functionalities such as optimization, control, signal processing, simulation and more along with hybrid dynamic systems modeler and simulator.

Mathematics is a Queen of science.
-Gauss

## WOLFRAM ALGEBRA COURSE ASSISTANT

| Wolfram |  |
| :--- | :--- |
| COURSE ASSISTANT |  |
| Evaluate | $>$ |
| Solve | $>$ |
| Plot | $>$ |
| Expand, Factor, ... | $>$ |
| Analytic Geometry |  |
| Inverse Functions |  |

Wolfram Algebra course assistant can most certainly support and assist in many algebra topics, it's geared for high school algebra and early college level algebra. All the main topics in Algebra are addressed and its a powerful homework helper.

## ALGEBRA GENIE



It addresses the main algebraic topics expressions, exponents, linear relations, Pythagorean Theorem, function basics, functions, quadratic functions, absolute function, square root function, exponentials and logarithms, factoring, systems of equations, conics. Algebra Genie was developed by teachers. There are over 200 lessons suitable for high school students.

Mathematics is the abstract key which turns the lock of the physical universe.
-John Polkin Ghome

## ALGEBRA BOOT CAMP



Algebra Boot Camp is really like the book and find that this app is like a textbook turned into app. This app has some basic pre-algebra like fractions, exponents, basic equations but it does lead into quadratic equations, matrices, radical and polynomials. It comes from the authors of the book 'Effortless Algebra' and the app follows the book for the most part.

## QUADRATIC MASTER



It is used to solve quadratic equations, inequalities and functions. Again, it's a great practice tool but students should have a basic understanding of quadratics. This app helps to build mastery.

All mathematics is symbolic logic.

## SpeQ Mathematics



SpeQ is a small, extensive mathematics program with a simple, intuitive interface. All calculations are entered in a sheet. SpeQ supports all common functions, constants and units. Furthermore, the custom variables and functions can be defined also the graphs can be plotted for the given functions.

SpeQ is useful for simple, brief calculations as well as working out sheets with extensive variable definitions, functions and complex calculations.

I have hardly ever known a Mathematician who was capable of reasoning.

## USEFUL RESEARCH LINKS

## BOOKS

http://libgen.io
http://gen.lib.rus.ec/
http://libgen.pw/
http://b-ok.org/
http://en.bookfi.net/
http://www.scribd.com/
http://www.avaxhome.co/
http://www.ebook3000.com/
http://www.freebookspot.es/

## LINKS

https://www.youtube.com/watch?v=VE0xIpf11Qo
http://nptel.ac.in/courses/111102011/module 1/lect1.pdf
https://www.youtube.com/watch?v=ZK3O402wf1c
https://www.youtube.com/watch?v=AqXOYgpbMBM
https://www.youtube.com/watch?v=fNk_zzaMoSs
https://www.khanacademy.org/math/linear-algebra/vectors-and-spaces/vectors/v/vector-introduction-linear-algebra
https://www.youtube.com/watch?v=gAbadNuQEjI
https://www.youtube.com/watch?v=zvRdbPMEMUI

## WEBSITES

- https://www.khanacademy.org
- https://www.coolmath.com
- https://www.mathgames.com
- https://www.purplemath.com
- https://www.ixl.com
- https://www.brightstorm.com
- https://www.mathway.com
- https://www.math-play.com
- https://www.freemathhelp.com
- https://www.mangahigh.com
- https://www.homeschoolmath.com
- https://www.wyzant.com
- https://www.mathhelp.com
- https://www.mathisfun.com
- https://www.intmath.com
- https://www.brilliant.org
- https://www.shmoop.com
- https://www.mathopolis.com
- https://www.fortlewis.edu
- https://www.softschools.com
- https://www.algebra.com
- https://www.code.org
- https://www.serpmedia.org
- https://www.mathscareers.org.uk
- https://www.wis.kuleuven.be
- https://www.mathsbitsnotebook.com
- https://www.cms.azed.gov
- https://www.kristakingmath.com
- https://www.pinterest.com
- https://www.apiic.in
- https://www.accessmaths.co.uk


## FRANK NELSON COLE



Frank Nelson Cole (September 20, 1861 - May 26, 1926) was an American Mathematician, born in Ashland, Massachusetts, and educated at Harvard, where he lectured on mathematics from 1885 to 1887 . Cole published a number of important papers, including The Diurnal Variation of Barometric Pressure (1892). In 1893 in Chicago, his paper On a Certain Simple Group (the group is PSL (2, 8)) was read (but not by him) at the International Mathematical Congress held in connection with the World's Columbian Exposition. Cole died alone in New York City at the age of 64. The American Mathematical Society's Cole Prize was named in his honor.

## About this Prize

The Frank Nelson Cole Prize, or Cole Prize for short, is one of two prizes awarded to Mathematicians by the American Mathematical Society, one for an outstanding contribution to algebra and the other for an outstanding contribution to number theory. The prize is named after Frank Nelson Cole, who served the Society for 25 years. The Cole Prize in algebra was funded by Cole himself, from funds given to him as a retirement gift; the prize fund was later augmented by his son, leading to the double award.

To be eligible for the Cole prize, the author must be a member of the American Mathematical Society or the paper should appear in a recognized North American journal. The first award for algebra was made in 1928 to L. E. Dickson, while the first award for number theory was made in 1931 to H. S. Vandiver.

The study of mathematics, like the Nile, begins in minuteness but ends in magnificence.
-Charles Caleb Cotton

FRANK NELSON COLE PRIZE IN ALGEBRA

| S.NO | YEAR | PRIZE WINNER | CITATIONS |
| :---: | :---: | :---: | :---: |
| 1 | 1928 | Leonard E. Dickson | Algebren und ihre Zahlentheorie |
| 2 | 1939 | Abraham Adrian Albert | Construction of Riemann matrices |
| 3 | 1944 | Oscar Zariski | Algebraic varieties |
| 4 | 1949 | Richard Brauer | Artin's L-series with general group characters |
| 5 | 1954 | Harish-Chandra | Representations of semisimple Lie algebras and groups |
| 6 | 1960 | Serge Lang \& Maxwell A. Rosenlicht | Unramified class field theory over function fields in several variables \& Generalized Jacobian varieties and a universal mapping property of generalized Jacobians |
| 7 | 1965 | Walter Feit \& John G.Thompson | Solvability of groups of odd order |
| 8 | 1970 | John R. Stallings \& Richard G. Swan | On torsion - free groups with infinitely many ends \& Groups of cohomological dimension one |
| 9 | 1975 | Hyman Bass \& Daniel G. Quillen | Unitary algebraic K-theory \& Higher algebraic K-theories |
| 10 | 1980 | Michael Aschbacher \& Melvin Hochster | A characterization of Chevalley groups over fields of odd order \& the homological theories of commutative rings |
| 11 | 1985 | George Lusztig | The representation theory of finite groups of Lie type |
| 12 | 1990 | Shigefumi Mori | Classification of algebraic varieties |
| 13 | 1995 | Michel Raynaud \& DavidHarbater | Solution of Abhyankar's conjecture |


| 14 | 2000 | AnderiSuslin \& Aise Johan de Jong | Motivic cohomology\&the resolution of <br> singularities by generically finite maps |
| :---: | :---: | :--- | :--- |
| 15 | 2003 | Hiraku Nakajima | Representation theory and Geometry |
| 16 | 2006 | Janos Kollar | Theory of rationally connected varieties <br> and for his illuminating work on a <br> conjecture of Nash |
| 17 | 2009 | Christopher Hacon \& James McKernan | Higher dimensional birational algebraic <br> geometry |
| 18 | 2012 | Alexander S. Merkurjev | The essential dimension of groups |
| 19 | 2015 | Peter Scholze | Perfectoid spaces which has led to a <br> solution of an important special case of <br> the Weight- mondromy conjecture <br> of Deligne |
| 20 | 2018 | Robert Guralnick | Representation theory, cohomology, <br> and subgroup structure of finite quasi- <br> simple groups, and the wide-ranging <br> applications of this work to other areas <br> of mathematics |

## MATH GLOSSARY

## Decade

A decade is a period of 10 years.

## Decagon

A polygon with ten sides.

## Deciles

Deciles are the technique of separating set of ranked data into 10 equally big subsections.

## Decimal

Decimal number is a number which contains a decimal point and is written using the base-10 number system. For example, 32.7, 0.321.

## Decimal fraction

A fraction expressed by using decimal representation, as opposed to a vulgar fraction.
Example: $\frac{3}{4}$ is a vulgar fraction, 0.75 is a decimal fraction.

## Decimeter

Decimeter is a unit of measurement of length used in the metric unit. Symbol of decimeter is $d m$. One Decimeter is equal to one tenth of a meter.

## Denary Number

Denary number is the base 10 number system. It is a standard number system used throughout the world, commonly known as decimal number. It uses numbers 1,2,3,4,5,6,7,8 and 9. Examples of denary numbers are $5,67,789,4543$ etc.

## Diameter

A line segment that contains the center and has it's endpoints on the circle. Also, the length of this segment.

Perfect numbers like perfect men are very rare.

## Dilation

Dilation is one among the two basic operations that deals with the areas like Mathematical morphology and erosion. It is a process of resizing the geometric figure into larger or smaller size around the fixed centre point.

## Dimensions

On the most basic level, this term refers to the measurements describing the size of an object. For example, length and width are the dimensions of a rectangle.

## Dimensional Consistency

If the dimension of the quantities is equal on both sides of the equation, then it is said to be dimensionally consistent.

## Directly Proportional

A relationship between two variables in which one is a constant multiple of the other. In particular, when one variable changes the other changes in proportion to the first.

## Discrete Data

Discrete data has a set of data that holds only certain standard values. This data can have only countable number of values which cannot be subdivided further.

## Discrete Random Variable

A discrete random variable is one which takes only a countable number of distinct values such as $0,1,2,3,4 \ldots$ discrete random variables are usually counts. If a random variable can take only a finite number of distinct values, then it must be discrete.

## Discriminant

The Discriminant of an equation gives an idea of the number of roots and the nature of roots of the equation.

Pure mathematics is, in its way, the poetry of logical ideas.
-Albert Einstein

## Distributive Law

If same answer is obtained while multiplying a number by set of numbers added together, as when we multiply each number separately and add them together is known as distributive law.

## Divergent Series

A divergent series is an infinite series that is not convergent, meaning that the infinite sequence of the partial sums of the series does not have a finite limit.

## Divisibility Rule

Divisibility rule is a rule that helps to determine whether a given number is divisible by divisor before performing the entire operation. The divisibility rule varies for each number.

## Divisor

A number that divides the integer exactly (no remainder). In other words the division works perfectly with no fractions involved. For example: $12 \div 3=4$, here 3 is the divisor.

## Domain

The set of values of the independent variable(s) for which a function or relation is defined. Typically, this is the set of $x$-values that give rise to real $y$-values. For example: $f(x)=x^{2}$, the domain of this is all real numbers.

An equation means nothing to me unless it expresses a thought of god.

# SOLUTIONS TO THE PROBLEMS OF THE PREVIOUS ISSUE <br> PUZZLES - BIOSTATISTICS 

## ANSWERS

LEFT TO RIGHT

1. Probability
2. Mean absolute
3. Simple

RIGHT TO LEFT
4. Combined
5. Random
6. Life
7. Held
8. Vital
9. U-test

## BOTTOM TO TOP

10. Linear
11. Extreme
12. Variable
13. Population

TOP TO BOTTOM
14. Standard
15. Nature

## CROSSWORDS-BIOSTATISTICS

1. Sample
2. Cluster
3. Class
4. Midpoint
5. Relative
6. Cumulative
7. Mean
8. Negative
9. Chi-square
10. Kendall
11. Pearson
12. Multiple
13. Availability Sampling
14. Subjective
15. Null

Mathematicians are like managers- they want improvement without change.

## CONGRATULATIONS

Congratulations to the following readers who turn out first in providing answers to the problems of the previous issue:

## CROSSWORD PUZZLE

| R.T. Ranchitha | III B.sc., (Biochemistry) |
| :--- | :--- |
| G. Dharani | I B.sc., (Zoology) |
| S. Kiruthika | III B.sc., (Biochemistry) |

## CROSSOUT CROSSWORD PUZZLE

S. Suganya
L.P. Sangeetha
A. Mythili

III B.sc., (Botany)
III B.sc., (Physics)
II B.sc., (Chemistry)

Congratulations to the following students for their Art work in this issue.
V. Gobika
I B.sc., (Mathematics A)
T. Kamali
G. Dhana Priya
I B.sc., (Mathematics A)
I M.sc., (Mathematics A)


## DEPARTMENT ACTIVITY 2017-2018

CA. S.V. Hari Kesavan B.Sc., F.C.A, Global Guide, Heartfulness Institute, Palayapalayam, Erode was the resource person in the Special Meeting on International Yoga Day (21.06.2017) addressed on the topic "Connect, Integrate, Become One Through Meditation".

As a part of Bridge Course, the fresher's were acquainted with "Fundamentals of Mathematics" on 30.06.2017, to test and improve their knowledge. The aim of the entry level test is to enable them to cope with the transform from school to college level. Basic skills of students was tested through entry level test, which carries questions from the topics Trigonometry, Differentiation and Integration, Statistics, Complex Analysis and Vector Analysis.

The final year UG and PG Students and Staff members of the Department visited three and half days trip to Bangalore, Mysore and Coorg on 11.08.2017 to 14.08.2017. The students enjoyed the first day trip at Lal park, BAMUL(Bangalore Milk Cooperation Union), Visvesvaraya Industrial and Technological Museum, Siva Temple, HAL(Hindustan Aeronautical Limited), Iskon Temple and Majestic Mall in Bangalore. The second day, students exalted at Thalacauveri, Thiruveni Sangamam and Golden Temple in Coorg. Finally they adored Samundeshwari Temple, Mysore Maharaja Palace, Zoo and shopping in Mysore.

In the Faculty Development Program on 10.08.2017, Peeyush Chandra, Professor (Retired), Department of Mathematics \& Statistics, Indian Institute of Technology, Kanpur shared his ideas on "Art of writing research proposal".

On 11.08.2017, Dr. S. Somasundaram, Professor, Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli was the chief invite for the Guest Lecture on "Introduction to Analysis".

In One day Workshop on Differential Equations (30.08.2017), the chief guests were, Dr. P.Kandaswamy FNASC, (Formerly of Bharathiar University, Coimbatore), Visiting Fellow, Energy Conservation Research Centre, Doshisha University, Kyoto, gave the lecture on "Biological Applications of Differential Equations" and Dr. Ramajayam Sahadevan, M.Sc., Ph.D., UGC Emeritus Fellow, Ramanujan Institute for Advanced Study in Mathematics,

University of Madras, Chennai delivered a lecture on "Non-Linear Differential Equation and their Applications".

Guest Lecture programme was organized on 05.12.2017 in the topic "Controllability and Inverse Problems on PDEs" with Dr. K. Sakthivel, Assistant Professor, Indian Institute of Space Science and Technology, Trivandrum, Kerala.

To render respectful accolades to the Math icon Ramanujam, "MATH EXPO - 17" was organized on 28.12 .2017 for his $130^{\text {th }}$ birthday celebration, Dr. P. Senthilkumar, Assistant Professor, Department of Mathematics, Government Arts and Science college, Kangeyam was the chief guest.

One day International Seminar on Introduction to Number Theory was held on 10.01.2018. Prof. Taekyun Kim, Kwangwoon University, South Korea gave the lecture on "Euler's Criterion on Quadratic Residue" in the morning session. Prof. Seog-Hoon Rim, Department of Mathematics, Kyungpook National University, South Korea delivered a talk on "Diophantine Equation in Number Theory" in the afternoon session.

On 18.01.2018, the Workshop on "Introduction to Maple" was organized to broaden the learner's knowledge about Maple software, Dr. Ramajayam Sahadevan, Director, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, was the chief guest.

The UG \& PG students created Math models to facilitate easy learning of mathematics to the students of Panchayat Union School, Sengodampalayam, on 30.01.2018, as a part of Extension Activity.

A Special Meeting was organized on 31.01.2018, Dr. Ramesh Venkadachalam Palani, Assitant Professor, School of Mathematics, Central University of Tamilnadu, Neelakudi, Thiruvarur, dealt in detail on "Mathematics for Researchers".

Association Competitions like Math Quiz, Math Sketching, e-invitation making and Math Connections were conducted by the Department of Mathematics on 14.02 .2018 \& 15.02.2018 to activate the interest of the students.

## Faculty Achievements

1. Research activities of the faculty

- Ph.D Awarded - Dr. G. Thamizhendhi, Assistant Professor \& Head, PG Department of Mathematics

Dr. K. K. Myithili
Assistant Professor,
PG Department of Mathematics

- SET Qualified - R. Akilandeswari

Assistant Professor,
PG Department of Mathematics

- M.Phil Produced - 1

2. Details of Conference/Seminars/Workshops/Symposium - Resource Person / Presented / attended by the staff members

| S.No | Type <br> of <br> Programme | Number of Faculty <br> Resource Person/ <br> Presented/Attended | State <br> Level | National | International |
| :---: | :--- | :--- | :--- | :--- | :--- |
|  |  | Resource person | - | - | - |
|  |  | Presented | - | - | 4 |
|  |  | Attended | - | - | - |
| 2 | Seminar | Resource person | 1 | - | - |
|  |  | Presented | - | 2 | - |
|  |  | Attended | 1 | - | - |
| 3 | Workshop | Attended | 21 | 4 | - |
| 4 | Guest Lecture | Resource person | 1 | - | - |

3. Faculty Recharging strategies (FDP/Orientation/Refresher/Retraining) attended by the staff members

FDP Attended - 3
4. Research Publications by the Staff members.

| $\begin{gathered} \text { S. } \\ \text { No } \end{gathered}$ | Name of the Staff | Title of the paper | Name of the Journal/Book | Journal <br> /Book <br> Volume no. | Month \& Year, PP | ISBN/ ISSN |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | G.Thamizhendhi | Some Types of Domination in Intuitionistic Fuzzy Graphs | International Journal of Mathematical Archive | Volume 9, No. 1 (Special Issue) | $\begin{aligned} & \text { Jan- 2018, } \\ & \text { PP 245-250 } \end{aligned}$ | $\begin{aligned} & \text { ISSN - } \\ & 2229-5046 \end{aligned}$ |
| 2 | K.K.Myithili | Intersecting <br> Intuitionistic <br> Fuzzy Directed <br> Hypergraphs | International <br> Journal of <br> Mathematical <br> Archive | Volume 9, No. <br> 1 (Special Issue) | $\begin{aligned} & \text { Jan-2018, } \\ & \text { PP 238-244 } \end{aligned}$ | $\begin{aligned} & \text { ISSN - } \\ & 2229-5046 \end{aligned}$ |
| 3 | K.K.Myithili | An Application of Transversals of Intuitionistic Fuzzy Directed Hypergraphs | The Journal of Fuzzy Mathematics | Volume 26, No. 1 | 2018, <br> PP 35-49 | ISSN - $1066-8950$ |
| 4 | R.Prahalatha | Existence of Solution of Global Cauchy Problem for Some Fractional Abstract Differential Equation | International <br> Journal of <br> Pure and <br> Applied <br> Mathematics | Volume 116, <br> No. 22 | $\begin{aligned} & \text { 2017, } \\ & \text { PP 163-174 } \end{aligned}$ | ISSN - <br> 1311-8080 <br> (printed version) ISSN -1314 <br> - 3395 <br> (on-line <br> version) |
| 5 | R.Prahalatha | Existence of <br> Extremal <br> Solution for <br> Integral <br> Boundary Value <br> Problem of Non <br> Linear Fractional <br> Differential <br> Equations | International <br> Journal of <br> Pure and <br> Applied <br> Mathematics | Volume 116, <br> No. 22 | $\begin{aligned} & \text { 2017, } \\ & \text { PP 175-185 } \end{aligned}$ | ISSN - <br> 1311-8080 <br> (printed version) ISSN - <br> 1314-3395 <br> (on-line <br> version) |
| 6 | R.Prahalatha | Existence of Solution for Boundary Value Problems of Fractional Differential Equations with Global Boundary Conditions | Global Journal of Pure and Applied Mathematics | Volume 13, No. 5 | $\begin{aligned} & \text { 2017, } \\ & \text { PP 196-207 } \end{aligned}$ | $\begin{aligned} & \text { ISSN - } \\ & 0973-1768 \end{aligned}$ |

## STUDENT ACTIVITIES

(i) Participation in Seminar / Conference / Workshop/Symposium - 146

| S. No. | Student participation |  | Title of Seminar/ Conference/ Workshop/ Symposium | Presented/ <br> Attended | Organizer | Title of the Paper | Date(s) | Remark <br> (Award/ Prize etc.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name \& Class | Numbers |  |  |  |  |  |  |
| 1 | A.V.Ghowsigaa II-M.Sc., Maths(A) | 13 | Science <br> Academies <br> Lecture <br> Workshop on <br> Real <br> Analysis | Attended | Vellalar College for Women | - | $\begin{aligned} & \text { 22.6.2017\& } \\ & 23.6 .2017 \end{aligned}$ | - |
| 2 | V.Kanjana Devi II-M.Sc., Maths(A) |  |  |  |  |  |  |  |
| 3 | $\begin{aligned} & \hline \text { K.Nandhini } \\ & \text { II-M.Sc., Maths(A) } \end{aligned}$ |  |  |  |  |  |  |  |
| 4 | $\begin{aligned} & \hline \text { B.Gopika } \\ & \text { II-M.Sc., Maths(A) } \end{aligned}$ |  |  |  |  |  |  |  |
| 5 | R.Bhuvaneshwari II-M.Sc., Maths(A) |  |  |  |  |  |  |  |
| 6 | R.Shribhavadharrany II-M.Sc., Maths(B) |  |  |  |  |  |  |  |
| 7 | R.K.Nivedhaa II-M.Sc., Maths(B) |  |  |  |  |  |  |  |
| 8 | S.Soundarya <br> II-M.Sc., Maths(B) |  |  |  |  |  |  |  |
| 9 | $\begin{aligned} & \hline \text { M.Sathananthy } \\ & \text { II-M.Sc., Maths(B) } \end{aligned}$ |  |  |  |  |  |  |  |
| 10 | $\begin{aligned} & \text { V.Sudha } \\ & \text { II-M.Sc., Maths(B) } \end{aligned}$ |  |  |  |  |  |  |  |
| 11 | M.Deepa M.Phil |  |  |  |  |  |  |  |
| 12 | M.Dharini M.Phil |  |  |  |  |  |  |  |
| 13 | T.Hemalatha M.Phil |  |  |  |  |  |  |  |
| 14 | P.Dharani <br> II M.Sc., Maths(A) | 8 | National <br> Conference <br> on Pure and <br> Applied <br> Mathematics | Presented | P.K.R Arts College for Women, Gobi | Nuffman Coding Tree in Graph Theory \& Its Application | 1.8.2017 | - |
| 15 | C.Bhavanandhini <br> II M.Sc., Maths(A) |  |  |  |  |  |  |  |
| 16 | B.Dhanu <br> II M.Sc., Maths(A) |  |  |  |  | Detection of Heart |  |  |
| 17 | V.Dhivya <br> II M.Sc., Maths(A) |  |  |  |  | Disease by Data Mining |  |  |
| 18 | R.A.HemaNandhini II M.Sc., Maths(A) |  |  |  |  | Fuzzy logic in Aircraft |  |  |
| 19 | S.Brindhadevi <br> II M.Sc., Maths(A) |  |  |  |  | Landing <br> Control |  |  |
| 20 | $\begin{aligned} & \hline \text { S.Abirami } \\ & \text { II M.Sc., Maths(A) } \\ & \hline \end{aligned}$ |  |  |  |  | Fuzzy logic in Waste Management |  |  |
| 21 | R.Bhuvaneshwari II M.Sc., Maths(A) |  |  |  |  |  |  |  |


| 22 | R.A.HemaNandhini II M.Sc., Maths(A) | 2 | Workshop Solstice - 17 | Presented | Sri Ramakrishna <br> Mission <br> Vidyalaya <br> College of Arts | Fuzzy logic in Aircraft Landing | 4.8.2017 | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | S.Brindhadevi II M.Sc., Maths(A) |  |  |  | and Science, Coimbatore |  |  |  |
| 24 | K.M.Vasminfarzana II M.Sc., Maths(B) | 4 | CSIR <br> Sponsored <br> National <br> Conference on <br> "Mathematical <br> Modeling in <br> Engineering <br> Sciences" | Presented | Excel <br> Engineering College | Application of Graph Theory in | $\begin{aligned} & \text { 17.8.2017\& } \\ & \text { 18.8.2017 } \end{aligned}$ | - |
| 25 | D.Subatra <br> II M.Sc., Maths(B) |  |  |  |  | Finger Print <br> Recognition |  |  |
| 26 | K.Hemalatha II M.Sc., Maths(A) |  |  |  |  | Scheduling Exam Time |  |  |
| 27 | M.Kanchanadevi II M.Sc., Maths(A) |  |  |  |  | Table by Using Graph Coloring |  |  |
| 28 | P.Dharani <br> II M.Sc., Maths(A) | 8 | National <br> Conference on Optimization Techniques \& Its Applications | Presented | Bharathidasan College of Arts and Science, Erode | Application of Graph Theory in | $\begin{aligned} & \text { 17.8.2017\& } \\ & \text { 18.8.2017 } \end{aligned}$ | - |
| 29 | S.Menaga II M.Sc., Maths(A) |  |  |  |  | Traffic <br> Management |  |  |
| 30 | A.Jasmin <br> II M.Sc., Maths(A) |  |  |  |  | Intiuitionistic Fuzzy Multisets and Its |  |  |
| 31 | V.Kanjanadevi <br> II M.Sc., Maths(A) |  |  |  |  | Application in Medical Diagnosis |  |  |
| 32 | R.Renuga <br> II M.Sc., Maths(B) |  |  |  |  | Page Rank <br> Using Matrix |  |  |
| 33 | K.Pavithra <br> II M.Sc., Maths(B) |  |  |  |  | Representation |  |  |
| 34 | V.Parimalam <br> II M.Sc., Maths(B) |  |  |  |  | Impacted Organ Detection Using Fuzzy Soft matrices |  | II |
| 35 | V.Sudha <br> II M.Sc., Maths(B) |  |  |  |  | Impacted Organ <br> Detection Using <br> Fuzzy Soft matrices |  | II |
| 36 37 | R.Dharane <br> II M.Sc., Maths(A) <br> G.Kiruthika <br> II M.Sc., Maths(A) | 8 | International Conference on Recent trends in <br> Mathematical Modelling | Presented | Bharathidasan College of Arts and Science, Erode | Guarding an Art <br> Gallery by <br> Graph <br> Colouring | 28.08.2017 | - |
| 38 | S.Geethanjali <br> II M.Sc., Maths(A) |  |  |  |  | Sudoku Game Solution Using |  |  |
| 39 | D.Kiruthika II M.Sc., Maths(A) |  |  |  |  | Graph Solutions |  |  |
| 40 <br> 41 | K.Selvapriya II M.Sc., Maths(B) <br> S.Ponsuryadevi II M.Sc., Maths(B) |  |  |  |  | Fuzzy Rule <br> Based <br> Diagnostic <br> System to Detect the Lung Cancer |  |  |
| 42 | B.Ramya <br> I M.Sc., Maths (B) |  |  |  |  |  |  | III |
| 43 | K.R.Sanjhanaa I M.Sc., Maths (B) |  |  |  |  | Cryptography |  | III |


| 44 | $\begin{aligned} & \text { E.Vaishnavi } \\ & \text { III- B.Sc., Maths(CA) } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | N.Akshaya III- B.Sc., Maths(CA) |  |  |  |  |  |  |  |
| 46 | R.Pavithra III- B.Sc., Maths(CA) |  |  |  |  |  |  |  |
| 47 | K.M.Akila III- B.Sc., Maths(CA) |  |  |  |  |  |  |  |
| 48 | V.C.Sowndarya III- B.Sc., Maths(CA) |  |  |  |  |  |  |  |
| 49 | $\begin{aligned} & \hline \text { M.Abi } \\ & \text { III- B.Sc., Maths A } \end{aligned}$ |  |  |  |  |  |  |  |
| 50 | $\begin{aligned} & \text { V.Geetha } \\ & \text { III- B.Sc., Maths A } \end{aligned}$ |  |  |  |  |  |  |  |
| 51 | $\begin{aligned} & \text { C.Hema } \\ & \text { III- B.Sc., Maths A } \end{aligned}$ |  |  |  |  |  | \& $6.12 .2017$ | - |
| 52 | $\begin{aligned} & \hline \text { L.Janani } \\ & \text { III- B.Sc., Maths A } \end{aligned}$ |  |  |  |  |  |  |  |
| 53 | $\begin{aligned} & \hline \text { D.Dharani } \\ & \text { III- B.Sc., Maths A } \end{aligned}$ |  | DBT <br> Sponsored |  |  |  |  |  |
| 54 | G.Mythili III- B.Sc., Maths B |  | Workshop on Differential | Attended | Vellalar College for |  |  |  |
| 55 | C.Nandhini Devi III- B.Sc., Maths B |  | Equation and their | Attended | Women |  |  |  |
| 56 | D.Nikkitha III- B.Sc., Maths B |  | Applications |  |  |  |  |  |
| 57 | K.Ponramila III- B.Sc., Maths B |  |  |  |  |  |  |  |
| 58 | A.Nandhini III- B.Sc., Maths B |  |  |  |  |  |  |  |
| 59 | K.Hemalatha II-M.Sc., Maths A |  | National |  |  |  |  |  |
| 60 | M.Kanchanadevi II-M.Sc., Maths A |  | Seminar Sponsored by |  |  |  |  |  |
| 61 | M.Nivetha M.Phil | 6 | (CSIR) on <br> Numerical |  | Sengunthar Engineering |  | $22.12 .2017 \&$ | - |
| 62 | A.Jayashree M.Phil |  | Techniques for Partial | Prtic | College |  | $23.12 .2017$ |  |
| 63 | S.Nandhini M.Phil |  | Differential Equation |  |  |  |  |  |
| 64 | $\begin{aligned} & \text { P.Saranya } \\ & \text { M.Phil } \end{aligned}$ |  |  |  |  |  |  |  |
| 65 | $\begin{aligned} & \hline \text { S.Deepika } \\ & \text { I-M.Sc., Maths A } \end{aligned}$ | 8 | Science |  |  |  |  |  |
| 66 | B.Kaviyadharsini I-M.Sc., Maths A | 8 | Academy <br> Lecture | Participated | SaradaNiketan College of | - | $\begin{aligned} & 1.1 .2018 \\ & \text { to } \end{aligned}$ | - |
| 67 | $\begin{aligned} & \text { P.Harini } \\ & \text { I-M.Sc., Maths A } \end{aligned}$ |  | Workshop on "Linear |  | Science for Women, Karur-639005 |  | 3.1.2018 |  |
| 68 | $\begin{aligned} & \text { S.S.Lalitha } \\ & \text { I-M.Sc., Maths A } \end{aligned}$ |  | Algebra and its |  |  |  |  |  |
| 69 | P.Jayasuriya <br> I-M.Sc., Maths A |  | Application <br> (SALW-2018) |  |  |  |  |  |
| 70 | C.Nandhini <br> I-M.Sc., Maths B |  |  |  |  |  |  |  |
| 71 | P.Pavithra <br> I-M.Sc., Maths B |  |  |  |  |  |  |  |
| 72 | A.Shobanapriya I-M.Sc., Maths B |  |  |  |  |  |  |  |


| 73 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 89 | P.Abinaya II-M.Sc Maths A | 10 | National <br> Workshop on Applications of Graph Theory in <br> Communicatio <br> n Networks | Participated | Vellalar <br> College of Engineering and Technology | - | 22.2.2018 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 90 | R.Bhuvaneshwari II-M.Sc Maths A |  |  |  |  |  |  |  |
| 91 | R.Dharane II-M.Sc Maths A |  |  |  |  |  |  |  |
| 92 | G.Kiruthika <br> II-M.Sc Maths A |  |  |  |  |  |  |  |
| 93 | S.Meena <br> II-M.Sc Maths A |  |  |  |  |  |  |  |
| 94 | V.Priyanga II-M.Sc Maths A |  |  |  |  |  |  |  |
| 95 | $\begin{aligned} & \text { S.Ramya } \\ & \text { II-M.Sc Maths B } \end{aligned}$ |  |  |  |  |  |  |  |
| 96 | S.Sabarina <br> II-M.Sc Maths B |  |  |  |  |  |  |  |
| 97 | E.Shobana II-M.Sc Maths B |  |  |  |  |  |  |  |
| 98 | D.Thenmozhi II-M.Sc Maths B |  |  |  |  |  |  |  |
| 99 | P.Asha <br> II-M.Sc.,Maths A | 35 | Workshop on Discrete Mathematics and its Application | Participated | Vellalar College for Women | - | $\begin{aligned} & 21.02 .2018 \\ & - \\ & 22.02 .2018 \end{aligned}$ | - |
| 100 | R.A.HemaaNandhini II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 101 | S.Brindhadevi II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 102 | B.Dhanu II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 103 | A.V.Ghowshigaa II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 104 | P.Dharini <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 105 | V.Dhivya <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 106 | G.MohanaPriya II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 107 | C.Bavanandhini <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 108 | B.Gobika <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 109 | K.Hemalatha II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 110 | M.Kanchanadevi II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 111 | K.Nandhini <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 112 | A.L.Azhagammai II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 113 | A.Jasmine <br> II-M.Sc.,Maths A |  |  |  |  |  |  |  |
| 114 | V.Sudha <br> II-M.Sc.,Maths B | 35 | Workshop on Discrete Mathematics | Participated | Vellalar <br> College for Women | - | $\begin{aligned} & \hline 21.02 .2018 \\ & 22.02 .2018 \end{aligned}$ | - |
| 115 | R.Shribavadharrany II-M.Sc.,Maths B |  | and its Application |  |  |  |  |  |
| 116 | V.Parimalam II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 117 | K.Selvapriya II-M.Sc.,Maths B |  |  |  |  |  |  |  |


| 118 | R.Ramya II-M.Sc.,Maths B | 35 | Workshop on Discrete Mathematics and its Application | Participated | Vellalar <br> College for Women | - | $\begin{aligned} & 21.02 .2018 \\ & 22.02 .2018 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 119 | S.Ponusuryadevi <br> II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 120 | M.Sathanathy II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 121 | B.Priyadharshini <br> II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 122 | R.Preethi <br> II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 123 | S.Sowntharya II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 124 | K.Pavithra II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 125 | M.Sandhya II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 126 | G.Vinodhini <br> II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 127 | K.M.YasminFarzana II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 128 | S.Sasikala <br> II-M.Sc.,Maths B |  |  |  |  |  |  |  |
| 129 | M.Nivetha M.Phil |  |  |  |  |  |  |  |
| 130 | S.Nandhini <br> M.Phil |  |  |  |  |  |  |  |
| 131 | P.Saranya M.Phil |  |  |  |  |  |  |  |
| 132 | A.Jayashree M.Phil |  |  |  |  |  |  |  |
| 133 | E.Leelavathi M.Phil |  |  |  |  |  |  |  |
| 134 | E.Leelavathi M.Phil |  |  |  |  | Hybrid Control on Uncontrolled Gene |  |  |
| 135 | A.Jayashree M.Phil | 3 | Seminar on New Trends in | Presented | Sri $\begin{aligned} & \text { Sarada } \\ & \text { College for }\end{aligned}$ | Regulatory Network | 26.2.2018 |  |
| 136 | P.Saranya M.Phil |  | Mathematical <br> Modeling |  | Women | Applications of <br> Vertex and Edge <br> Magic total <br> Labeling  |  |  |
| 137 | $\begin{aligned} & \text { M.KarthiNivetha } \\ & \text { I - M.Sc., Maths A } \\ & \hline \end{aligned}$ |  | Science |  |  |  |  |  |
| 138 | P.Jayasuriya <br> I - M.Sc., Maths A |  | Lecture |  | Bharathidasan College of |  | 01.03.2018 |  |
| 139 | S.Deepika <br> I - M.Sc., Maths A |  | Mathematical Modeling in | Participated | Arts and Science | - | $02.03 .2018$ |  |
| 140 | $\begin{aligned} & \text { S.Gowthami } \\ & \text { I - M.Sc., Maths A } \end{aligned}$ |  | Biology |  |  |  |  |  |


| 141 | $\begin{aligned} & \text { S.S. Lalitha } \\ & \text { I - M.Sc., Maths A } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 142 | K.Priyanka <br> I - M.Sc., Maths B |  | Science |  |  |  |  |  |
| 143 | M.Yasotha <br> I - M.Sc., Maths B | 6 | Lecture |  | Bharathidasan <br> College of |  | 01.03.2018 - |  |
| 144 | V. Sowmiya <br> I - M.Sc., Maths B |  | Mathematical | Participated | Arts and <br> Science | - | 02.03.2018 |  |
| 145 | E.Leelavathi M.Phil |  | Biology |  |  |  |  |  |
| 146 | A.Jayashree M.Phil |  |  |  |  |  |  |  |

ii) Participation in MTTS/Training Programme : 10

| S. <br> No | Name of the Student | Class | Date of the event | No of days | Organizer | Name of the Training Programme | Prize Awar ded |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | R.Bhuvaneshwari | II-M.Sc <br> Maths(A) | $\begin{aligned} & 10.05 .2017 \\ & \& \\ & 30.05 .2017 \end{aligned}$ | 20 | Ramanujam Institute for advanced study in Mathematics, University of Madras, Chennai-600005 | 9th Summer Training | - |
| 2 | R.K.Nivedhaa | II-M.Sc <br> Maths(B) |  |  |  |  | - |
| 3 | S.Menaga | $\begin{aligned} & \text { II-M.Sc } \\ & \text { Maths(A) } \end{aligned}$ | $\begin{aligned} & 03.07 .2017 \\ & \& \\ & 04.07 .2017 \end{aligned}$ | 2 | The Institute of Mathematical Sciences, Chennai-600113 | Facets 2017-A | - |
| 4 | R.K.Nivedhaa | II-M.Sc <br> Maths(B) |  |  |  |  | - |
| 5 | R.Shribhavadharrany |  |  |  |  |  | - |
| 6 | S.Vedhanayagi |  |  |  |  |  | - |
| 7 | A.Nandhini | III-B.Sc <br> Maths(B) |  |  |  |  | - |
| 8 | C.Nandhini Devi |  |  |  |  |  | - |
| 9 | P.ShreeMathi |  |  |  |  |  | - |
| 10 | V.Poornima | II-B.Sc <br> Maths(B) | $\begin{aligned} & 07.08 .2017 \\ & \text { to } \\ & 12.08 .2017 \end{aligned}$ | 5 | Central University of Tamil Nadu \&Nandha Arts and Science College, Erode | Summer School in Mathematics to the Memory of Dr.Harish Chandra Nurture 2017 | - |

(iii) Co-curricular, Cultural and Sports activities - (Furnish details of only those students who won prizes)

| S. <br> No | Name and Class of <br> the student | Event/ Programme | Date | Organizer | Award/ Prize/ <br> Position |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | N.DharaniPriya <br> III B.Sc.,Maths(A) | Bharathidasan A Poetry Oral <br> Competition | 05.08 .2017 | Erode <br> TherkkuMavattaManagara <br> D.M.K EllakiyaAni | Cash Award <br> Rs.1500 |
| 2 | S.Vasuki <br> II M.Sc.,Maths(B) | State Level Intercollegiate meet |  |  |  |
| 3 | R.Ramya <br> II M.ScMaths(B) | - Paper Presentation |  |  |  |

$\left.\begin{array}{|l|l|l|l|l|l|}\hline 5 & \begin{array}{l}\text { K.Janaki } \\ \text { II B.Sc.,Maths (CA) }\end{array} & & & \begin{array}{l}\text { Cash Award } \\ \text { Rs.300 }\end{array} \\ \hline 6 & \begin{array}{l}\text { A.Dharanisri } \\ \text { I M.Sc.,Maths(A) }\end{array} & \begin{array}{l}\text { State Level Intercollegiate meet } \\ \text {-Quiz }\end{array} & & \begin{array}{l}\text { Cash } \\ \text { AwardRs. 500 }\end{array} \\ \hline 7 & \begin{array}{l}\text { T.Kamali } \\ \text { I B.Sc.,Maths(A) }\end{array} & \text { State Level Intercollegiate meet }\end{array}\right)$

| 30 | J.Viswabharathi <br> I-B.Sc.,Maths(B) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 31 | V.Deepika <br> III-B.Sc.,Maths(CA) | Intercollegiate meet Group Dance | 23.1.2018 | Erode Arts and Science College | I |
| 32 | M.Parimaladurga III-B.Sc.,Maths(CA) |  |  |  |  |
| 33 | V.Narmatha III-B.Sc., Maths(CA) |  |  |  |  |
| 34 | K.K.Elamathi I-B.Sc.,Maths(CA) |  |  |  |  |
| 35 | R.Dharini <br> I-B.Sc.,Maths(CA) |  |  |  |  |
| 36 | N.Ramya <br> I-B.Sc.,Maths(B) | National Level Intercollegiate <br> Meet Variety <br> Entertainment(Silambam) | 25.1.2018 | Kamadhenu Arts and Science College | II |
| 37 | $\begin{aligned} & \hline \text { T.Kamali } \\ & \text { I-B.Sc.,Maths(A) } \end{aligned}$ | Math GALOper'18 an Intercollegiate meet - Math Modeling | 30.1.2018 | Kongunadu Arts and Science College(Autonomous),Coim batore | III |
| 38 | M.MohamoodHasmat hNaseera <br> I-B.Sc.,Maths(A) |  |  |  |  |
| 39 | P.Vaishnavi <br> I-M.Sc.,Maths(B) | Intercollegiate meet "TILTA 18" - Paper presentation | 2.2.2018 | Sree Amman Arts and Science College,Erode | I |
| 40 | M.Parimalajothi I-M.Sc.,Maths(B) |  |  |  |  |
| 41 | V.Dharani <br> III-B.Sc.,Maths(A) | Intercollegiate meet "TILTA$18^{\prime \prime}-\text { Quiz }$ | 2.2.2018 | Sree Amman Arts and Science College,Erode | III |
| 42 | V.Gowsalya <br> III-B.Sc., Maths(A) |  |  |  |  |
| 43 | K.Vijayakumari III-B.Sc., Maths(B) | Amusement Game | 08.02.2018 | Vellalar College For Women | II |
| 44 | $\begin{aligned} & \hline \text { R.Srimathi } \\ & \text { I-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  | I |
| 45 | K.M.Akila III-B.Sc.,Maths(CA) |  |  |  | I |
| 46 | M.Paviyadharshini I-B.Sc.,Maths(CA) | Long Jump |  |  | III |
| 47 | $\begin{aligned} & \text { S.Keerthika } \\ & \text { II-B.Sc.,Maths(A) } \end{aligned}$ | March Past |  |  | I |
| 48 | $\begin{aligned} & \hline \text { N.Shanmathi } \\ & \text { II-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 49 | $\begin{aligned} & \hline \text { R.Sneha } \\ & \text { II-B.Sc., Maths(CA) } \end{aligned}$ |  |  |  |  |
| 50 | C.Parkavi II-B.Sc., Maths(CA) |  |  |  |  |
| 51 | $\begin{aligned} & \hline \text { D.M.Pavithra } \\ & \text { II-B.Sc., Maths(CA) } \end{aligned}$ |  |  |  |  |
| 52 | T.Nivedhitha II-B.Sc., Maths(B) |  |  |  |  |
| 53 | $\begin{aligned} & \text { S.LaxmiPrabha } \\ & \text { II-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |


| 54 | R.Kiruba II-B.Sc.,Maths(A) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 55 | $\begin{aligned} & \text { S.Harini } \\ & \text { I-B.Sc., Maths(CA) } \end{aligned}$ |  |  |  |  |
| 56 | $\begin{aligned} & \hline \text { M.Rithika } \\ & \text { I-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 57 | R.Lishagobika I-B.ScMaths(CA) |  |  |  |  |
| 58 | $\begin{aligned} & \hline \text { R.Rajalakshmi } \\ & \text { I-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 59 | $\begin{aligned} & \text { T.Kayalvizhi } \\ & \text { I-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 60 | S.Ramyadharshini I-B.Sc.,Maths(CA) |  |  |  |  |
| 61 | C.Ishwaryalakshmi <br> I-B.Sc.,Maths(A) |  |  |  |  |
| 62 | $\begin{aligned} & \hline \text { S.Janani } \\ & \text { I-B.Sc.,Maths(A) } \end{aligned}$ | March Past |  |  | I |
| 63 | B.SubhaPriya <br> I-B.Sc.,Maths(B) |  |  |  |  |
| 64 | M.Nitharshna I-B.Sc.,Maths(B) |  |  |  |  |
| 65 | $\begin{aligned} & \hline \text { B.Sindhuja } \\ & \text { I-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 66 | $\begin{aligned} & \text { T.Pavithra } \\ & \text { I-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 67 | $\begin{aligned} & \hline \text { C.Vaishnavi } \\ & \text { I-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 68 | K.Niranjini <br> I-B.Sc.,Maths(B) |  | 08.02.2018 | Vellalar College For Women |  |
| 69 | $\begin{aligned} & \hline \text { M.Naveena Sri } \\ & \text { I-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 70 | $\begin{aligned} & \hline \text { S.Sindhuja } \\ & \text { II-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 71 | K.K.Sowmiya I-B.ScMaths(B) | Shot-Put |  |  | II |
| 72 | $\begin{aligned} & \hline \text { K.Sivabharathi } \\ & \text { III-B.Sc., Maths(B) } \end{aligned}$ | 400 metres(Athletics) |  |  | III |
| 73 | $\begin{aligned} & \hline \text { S.Roshini } \\ & \text { III-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 74 | R.VishnuPriyaa III-B.Sc.,Maths(B) |  |  |  |  |
| 75 | K.Sivabharathi III-B.Sc.,Maths(B) |  |  |  |  |
| 76 | $\begin{aligned} & \text { S.Nithya } \\ & \text { III-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  | II |
| 77 | $\begin{aligned} & \hline \text { V.Gowsalya } \\ & \text { III-B.S., Maths(A) } \end{aligned}$ | Kho-Kho |  |  | II |
| 78 | $\begin{aligned} & \hline \text { K.Poornima } \\ & \text { I-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 79 | N.Nandhini II-B.Sc.,Maths(B) |  |  |  |  |
| 80 | $\begin{aligned} & \hline \text { P.Gomathi } \\ & \text { II-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 81 | V.Vinothini <br> III-B.Sc.,Maths(CA) |  |  |  |  |


| 82 | $\begin{aligned} & \text { T.R.Indhumathi } \\ & \text { II-B.Sc.,Maths(A) } \end{aligned}$ | Hand Ball | 08.02.2018 | Vellalar College For Women | I |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 83 | $\begin{aligned} & \text { M.Dhivya } \\ & \text { II-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 84 | $\begin{aligned} & \hline \text { P.Surya } \\ & \text { III-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 85 | K.Vijayakumari III-B.Sc.,Maths(B) |  |  |  |  |
| 86 | N.Dharanipriya III-B.Sc.,Maths(A) |  |  |  |  |
| 87 | $\begin{aligned} & \hline \text { S.Roshini } \\ & \text { III-B.Sc.,Maths(B) } \end{aligned}$ |  |  |  |  |
| 88 | R.VishnuPriyaa III-B.Sc.,Maths(B) |  |  |  |  |
| 89 | R.Moushikaa II-B.ScMaths(B) | Swimming(Single) |  |  | II |
| 90 | $\begin{aligned} & \hline \text { R.Moushikaa } \\ & \text { II-B.ScMaths(B) } \end{aligned}$ | Swimming(Relay) |  |  |  |
| 91 | $\begin{aligned} & \hline \text { R.Gopika } \\ & \text { III-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 92 | $\begin{aligned} & \text { V.Vindhini } \\ & \text { III-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  | II |
| 93 | $\begin{aligned} & \hline \text { K.S.Mithra } \\ & \text { I-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 94 | P.Surya <br> III-B.Sc.,Maths(B) | Foot Ball | 08.02.2018 |  | I |
| 95 | K.Vijayakumari III-B.Sc.,Maths(B) |  |  |  |  |
| 96 | $\begin{aligned} & \hline \text { S.Roshini } \\ & \text { III-B.Sc.,Maths(B) } \\ & \hline \end{aligned}$ |  |  |  |  |
| 97 | R.VishnuPriyaa III-B.Sc., Maths(B) |  |  |  |  |
| 98 | K.Varsha III-B.Sc.,Maths(B) |  |  |  |  |
| 99 | S.Vasumathi III-B.Sc.,Maths(B) |  |  |  |  |
| 100 | R.V.Swathi III-B.Sc.,Maths(B) |  |  |  |  |
| 101 | N.KanihaVishwa I-B.Sc.,Maths(A) |  |  |  |  |
| 102 | $\begin{aligned} & \text { T.Harini } \\ & \text { I-M.Sc.,Maths(A) } \end{aligned}$ | Intercollegiate meet "EQUATE 18" - Math Sketching | 9.2.2018 | Kaamadhenu Arts and Science College Sathyamangalam | II |
| 103 | $\begin{aligned} & \hline \text { K.Janaki } \\ & \text { II-B.Sc.,Maths(CA) } \end{aligned}$ |  |  |  |  |
| 104 | $\begin{aligned} & \hline \text { E.Vidhya } \\ & \text { III-B.Sc.,Maths(CA) } \end{aligned}$ | Intercollegiate meet "EQUATE 18" - Math Modeling |  |  |  |
| 105 | M.Parimaladurga III-B.Sc.,Maths(CA) |  |  |  | I |
| 106 | S.Kaviya III-B.Sc.,Maths(A) | Intercollegiate meet - Ads-Zap | 15.2.2018 | Builders Engineering College | III |
| 107 | V.Gowsalya III-B.Sc.,Maths(A) |  |  |  |  |
| 108 | $\begin{aligned} & \text { R.Indhu } \\ & \text { III-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 109 | $\begin{aligned} & \hline \text { J.Mohanapriya } \\ & \text { III-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 110 | $\begin{aligned} & \hline \text { S.Anusha } \\ & \text { III-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |


| 111 | R.VishnuPriyaa III-B.Sc.,Maths(B) | Enviro Club Quiz | 24.2.2018 | Vellalar College for Women | II |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 112 | V.Dharani III-B.Sc.,Maths(A) | ZOOPPA 2017-18 Intra Collegiate Feast Group Dance | $\begin{aligned} & 27.2 .2018 \\ & - \\ & 28.2 .2018 \end{aligned}$ |  | I |
| 113 | $\begin{aligned} & \hline \text { R.Indhu } \\ & \text { III-B.Sc.,Maths(A) } \end{aligned}$ |  |  |  |  |
| 114 | S.Kaviya III-B.Sc.,Maths(A) |  |  |  |  |
| 115 | C.Hema <br> III-B.Sc.,Maths(A) |  |  |  |  |
| 116 | K.S.GokulaPriya III-B.Sc.,Maths(A) |  |  |  |  |
| 117 | R.Kowsalya III-B.Sc.,Maths(A) |  |  |  |  |
| 118 | E.Vaishnavi III-B.Sc.,Maths(CA) | ZOOPPA 2017-18 |  |  |  |
| 119 | $\begin{aligned} & \text { K.M.Akila } \\ & \text { III-B.Sc.,Maths(CA) } \end{aligned}$ | Brain Storm(Quiz) |  |  | 1 |
| 120 | R.VishnuPriyaa III-B.Sc.,Maths(B) | ZOOPPA 2017-18 Intra Collegiate Feast Photography |  |  | I |

## PLACEMENT DETAILS

We feel proud to convey that our students have been placed in the following reputed Institutions.

| S.NO | Name of the student | Class | Company Name |
| :--- | :--- | :--- | :--- |
| 1 | A.V. Ghowsigaa | II- M.SC (Mathematics)-A | IDBI and Federal Insurance |
| 2 | K. Hemalatha | II- M.SC (Mathematics)-A | IDBI and Federal Insurance |
| 3 | V. Archana | II- M.SC (Mathematics)-A | IDBI and Federal Insurance |
| 4 | M. Sandiya | II- M.SC (Mathematics)-B | IDBI and Federal Insurance |
| 5 | S. Sowmiya | II- M.SC (Mathematics)-B | IDBI and Federal Insurance |
| 6 | B. Priyadharsini | II- M.SC (Mathematics)-B | IDBI and Federal Insurance |

## SNAPSHOTS

## BRIDGE COURSE



Enhancing "Fundamentals of Mathematics" for the first year students.

## INDUSTRIAL VISIT



Functional Exposure: Visit to HINDU NEWSPAPER, Mangalore.

FACULTY DEVELOPMENT PROGRAM


A Faculty Development Program on "Art of Writing Research Proposal" with
Prof. Peeyush Chandra.
GUEST LECTURE


A wonderful lecture on "Introduction to Analysis" by Dr. S.Somasundaram.

WORKSHOP


A workshop on "Biological Applications on Differential Equations"by Dr.P.Kandaswamy.


A summit on "Non-Linear Differential Equation and their Applications" by
Dr. Ramajayam Sahadevan.


Exploration on "Controllability and Inverse Problems on PDE" by Dr.K.Sakthivel.

## MATH EXHIBITION



Applications of Mathematics in real life has been exhibited through models at $\mathbf{1 3 0}^{\text {th }}$ Ramanujam's Birthday Celebration, "MATH EXPO 2017".


The chief guest rewarded the prizes for the winners of Math Expo 2017

## INTERNATIONAL SEMINAR



Interactive forum on "Euler's Criterion on Quadratic Residue" by Prof. Taekyun Kim.


Effective convention by Prof. Seog-Hoon Rim on "Diophantine Equation in Number Theory".

WORKSHOP


A tremendous workshop on "Introduction to Maple" by Dr. RamajayamSahadevan.


An inspirational speech by Dr. Ramesh VenkadachalamPalani on "Mathematics for Researchers"

## EXTENSION ACTIVITY



Special Moment for the Young Learners in Government School.

