



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI-34

DEPARTMENT OF MATHEMATICS (SHIFT II)

A REPORT ON

LOYOLA FRESHMEN FLEDGLING 2023

(19 – 27 June 2023)

Objective

To know the abilities and talents of the freshers of the department by means of simple activities and to navigate transition from their school education to the collegiate education.

Activities

The fledglings were invited through Google classroom and informed about the programme in advance. The staff in-charge made sure of the joining of the students in the Google classroom through WhatsApp communication. The programme was designed to know about the students and their talents.

Activities were conducted from 19th to 27th June 2023, one activity per day excluding on the weekends. The instructions of each activity of a day were posted one day in advance regularly. This helped the students to prepare for the activity without any difficulty. The staff in-charge frequently monitored the participation of the freshers, and hence the students came out with nice outputs.

Day-1 (19/6/2023): Self introduction

- * Students were asked to send a document on “Self-introduction”, and they submitted write ups about themselves and submitted the file in Google classroom.
- * Most of them expressed their happiness and joy of joining B.Sc. Mathematics programme in Loyola.
- * They wished to study mathematics to improve their skills and problem-solving abilities through the essence of mathematics.

Day-2 (20/6/2023): Mathematician I know

- * Since the students wished to join mathematics programme, they were asked whether they know some mathematicians.
- * This activity was conducted to ignite the spirit of learning mathematics by the life history of great mathematicians who contributed their lives to the mathematics world.
- * Students drafted the history and contribution of most of the known mathematicians of India as well as other countries.
- * Some of the mathematicians our students wrote about are: Aryabhata, Pythagoras, Srinivasa Ramanujan, Isaac Newton, Brahmagupta, Carl Friedrich Gauss, Johann Bernoulli and etc.

Day-3 (21/6/2023): Quiz on arithmetic and basic mathematics

- ✧ To motivate the problem solving abilities and techniques, and to make a healthy competitive environment, a quiz competition was conducted through Google form.
- ✧ 15 questions were asked from arithmetic and basic mathematics by grading 1 mark for each question.
- ✧ Students were active in solving the problems.
- ✧ The average mark scored by the students was 11 out of 15.

Day-4 (22/6/2023): Topic in mathematics I am interested in

- ✧ This activity was conducted to know various topics in mathematics our freshers are interested in, and this activity would indirectly motivate them to learn a subject or at least to know about the subject as a mathematician.
- ✧ Each one summarized a topic and its historical establishment and developments.
- ✧ Some topics of interest are: Number theory, algebra, calculus, geometry, probability, trigonometry and etc.

Day-5 (24/6/2023): Quiz on mensuration and geometry

- ✧ To know the geometrical visualization of our fledglings in the field of mathematics, another quiz on mensuration and geometry was conducted for them.
- ✧ This practice would definitely help them to know and to recollect their knowledge in geometry.
- ✧ Students actively participated in the quiz programme conducted through Google classroom, and 10 questions were asked with the grading of 1 mark per question.
- ✧ The average mark scored by the students was 7 out of 10.

Day-6 (26/6/2023): Creation of a video on applications of mathematics



- ✧ Video creation and short-film making trends among the Z-learners now a days.
- ✧ To encourage the students to make videos related to the applications of mathematics, this activity was conducted for our students.
- ✧ The maximum length of the video file was fixed as 4 minutes and they followed the rule and presented in a nice way.
- ✧ Students created videos beautifully and in which they briefed the applications of mathematics and how the subject is applied in various activities of our day- to-day life.
- ✧ Some extracts of the videos are:
 1. Mathematics is used in calculations of time, money etc.
 2. Algebra is one of fields in mathematics which is almost used in our daily life.
 3. Mathematics is used in medical fields.
 4. Trigonometry finds so many applications in the construction of buildings.

Day-7 (27/6/2023): Painting on mathematics

- ✧ Painting is a major art in ours.
- ✧ To encourage the creative minds, this activity was conducted for our students.
- ✧ They were asked to submit the painting through Google form after scanning their paintings.
- ✧ Students exhibited their talents in painting some mathematical contents.

Photo Gallery

<u>LOYOLA FRESHMEN FLEDGLING (2023-2024)</u>	<u>LOYOLA FRESHMEN FLEDGLING (2023-2024)</u>
CLASS : I BSC MATHEMATICS (SHIFT-II)	CLASS : I BSC MATHEMATICS (SHIFT-II)
DEPT. NUMBER : 23-UMT-201	DEPT. NUMBER : 23-UMT-220
NAME : NITHIYARAJ. N	NAME : Arhan Khan
DATE : 19/06/2023	DATE : 19/06/2023
<u>SELF INTRODUCTION</u>	<u>SELF INTRODUCTION</u>
<p>Thank you so much for giving me an opportunity to introduce myself. My name is Nithiyaraj N. I Am 17 years old. I Am from Chennai. Let me tell you about my schooling. I studied at ZAMAR MATRICULATION HR SEC SCHOOL and I was a school public leader and now I'm here to complete my bachelor's degree in mathematics. I love doing math and I'm very happy to be a part of this college. My hobbies are solving puzzles, listening to music and I love playing volleyball and have represented my school in many competitions. My ambition is to become an Indian administrative officer. and I'm ready to work hard to achieve my goals and that's all about me.</p>	<p>Respected Sir/Madam,</p> <p>It's my pleasure to introduce myself. I am Arhan Khan from Kolkata, West Bengal. My mother's name is Yasmin Khanam. I have completed my schooling from Delhi Public School Newtown. (I have got 92.4% in my class 10 and 71%(BO4) in my class 12).</p> <p>I'm thrilled to be admitted into the BSc. Mathematics Program at Loyola college. With a burning Passion for mathematics, I am here to make a lasting impression.</p> <p>While it may seem that my academic marks in class 12 may not be perfect, I believe that they do not fully reflect my potential and commitment to personal growth. I'm ready to put in the extra effort and give my 100%.</p>
(19/6/2023)	(19/6/2023)
Activity-1 ::: Self-introduction and my positives	Activity-1 ::: Self-introduction and my positives

<u>LOYOLA FRESHMEN FLEDGLING (2023-2024)</u>	<u>LOYOLA FRESHMEN FLEDGLING (2023-2024)</u>
CLASS : I BSC MATHEMATICS (SHIFT-II)	CLASS : I BSC MATHEMATICS (SHIFT-II)
DEPT. NUMBER : 23-UMT-209	DEPT. NUMBER : 23-UMT-218
NAME : EZEKIEL JUDE J	NAME : G. PAULEBENEZER
DATE : 20/06/2023	DATE : 20/06/2023
<u>MATHEMATICIAN I KNOW</u>	<u>MATHEMATICIAN I KNOW</u>
<p>Name of the mathematician: Pythagoras</p> <p>History and contribution of the mathematician (in about 750 words):</p> <p>Introduction:</p> <p>Pythagoras, a renowned mathematician, philosopher, and founder of the Pythagorean School, left an indelible mark on the field of mathematics. Born in ancient Greece around 570 BCE on the island of Samos, Pythagoras revolutionized our understanding of numbers, geometry, and the harmonious relationship between mathematics and the universe. This essay delves into the life and contributions of Pythagoras, highlighting his remarkable discoveries and enduring legacy.</p> 	<p>Name of the mathematician: Carl Friedrich Gauss</p> <p>History and contribution of the mathematician (in about 750 words): JOHANN KARL FRIEDRICH GAUSS</p> <p>History of Carl Friedrich Gauss</p> <p>Born April 30th, 1777, in Brunswick (Germany), Karl Friedrich Gauss was perhaps one of the most influential mathematical minds in history, sometimes called the "Prince of Mathematics". He was noticed for his mathematical thinking at a very young age. At only 7 years old, he caught the eye of his schoolteacher, Buttner, with his ability to sum up the numbers from 1 to 100 in mere seconds. At age 11, he began his formal education at the "Gymnasium" senior secondary school in Germany, and went on to the Brunswick Collegium Carolinum at age 15 on a stipend from the Duke of Brunswick – his benefactor. Even at this age, Gauss – working on his own – was able to deduce some very important results in the field of Number Theory.</p> 
(20/6/2023)	(20/6/2023)
Activity-2 ::: Mathematician I know	Activity-2 ::: Mathematician I know

LFF Day-3 (21/6/2023) ::: Quiz on arithmetic and basic mathematics

Dear students,

1. You are asked to submit this form prepared for Quiz.
2. There are 15 questions from arithmetic and basic mathematics.
3. Each question carries 1 mark.
4. Please read the questions correctly and carefully, and then answer.
5. Questions are asked from arithmetic and basic mathematics.
6. The deadline to submit the form is 6 pm tomorrow (21/6/2023).

All the best.

(21/6/2023)

Activity-3 ::: Quiz on arithmetic and Basic mathematics

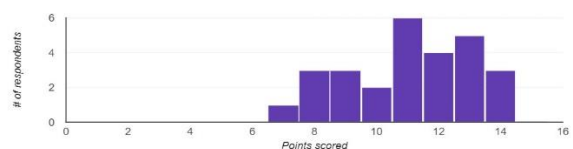
Insights

Average
11.07 / 15 points

Median
11 / 15 points

Range
7 - 14 points

Total points distribution



(21/6/2023)

Activity-3 ::: Quiz on arithmetic and Basic mathematics

LOYOLA FRESHMEN FLEDGLING (2023-2024)

CLASS : I BSC MATHEMATICS (SHIFT-II)
 DEPT. NUMBER : 23-UMT-208
 NAME : HEMA GURU M
 DATE : 22/06/2023

TOPIC IN MATHEMATICS I AM INTERESTED IN

Name of the topic:

Write in detail about the topic and the reason why you are interested in it:



That's great! Geometry is a fascinating branch of mathematics that deals with the study of shapes, sizes, and properties of figures and spaces. It encompasses various topics ranging from basic concepts of points, lines, and angles to more advanced topics like trigonometry, transformations, and proofs.

(22/6/2023)

Activity-4 ::: Topics in mathematics I am interested in

LOYOLA FRESHMEN FLEDGLING (2023-2024)

CLASS : I BSC MATHEMATICS (SHIFT-II)
 DEPT. NUMBER : 23-UMT-222
 NAME : THEAJEESH WARAN M
 DATE : 22/06/2023

TOPIC IN MATHEMATICS I AM INTERESTED IN

Mathematics is the science and study of quality, structure, space, and change. Mathematicians seek out patterns, formulate new conjectures, and establish truth by rigorous deduction from appropriately chosen axioms and definitions.

There is debate over whether mathematical objects such as numbers and points exist naturally or are human creations. The mathematician Benjamin Peirce called mathematics "the science that draws necessary conclusions". Albert Einstein, on the other hand, stated that "as far as the laws of mathematics refer to reality, they are not certain; and as far as they are certain, they do not refer to reality."

(22/6/2023)

Activity-4 ::: Topics in mathematics I am interested in

LFF Day-5 (23/6/2023) ::: Quiz on Mensuration and Geometry

Dear students,

1. You are asked to submit this form prepared for Quiz.
2. There are 10 questions from Mensuration and geometry.
3. Each question carries 1 mark.
4. Please read the questions correctly and carefully, and then answer.
5. The deadline to submit the form is 6 pm tomorrow (23/6/2023).

All the best.

(23/6/2023)

Activity-5 ::: Quiz on mensuration and geometry

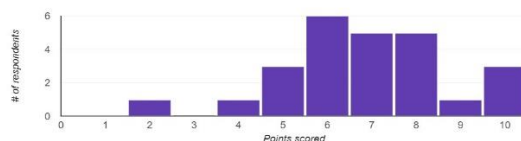
Insights

Average
6.84 / 10 points

Median
7 / 10 points

Range
2 - 10 points

Total points distribution



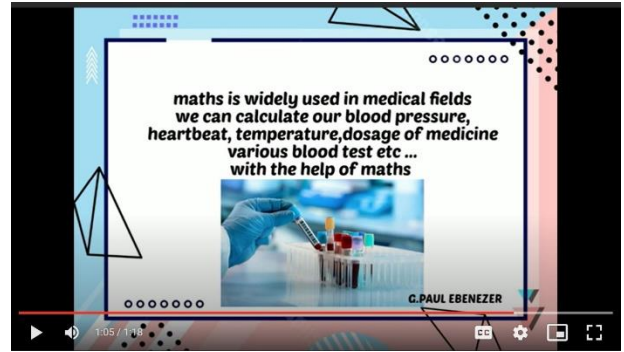
(23/6/2023)

Activity-5 ::: Quiz on mensuration and geometry



(26/6/2023)

Activity-6 ::: Video creation on applications of mathematics



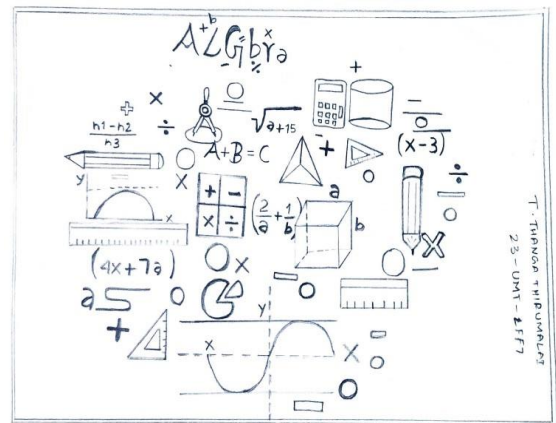
(26/6/2023)

Activity-6 ::: Video creation on applications of mathematics



(27/6/2023)

Activity-7 ::: Painting on mathematics



(27/6/2023)

Activity-7 ::: Painting on mathematics

Faculty members

Dr. J. Janet Sheeba

Staff-in-charge

Loyola Freshmen Fledgling programme

Dr. T. Bharathi

Coordinator of the Department

Dr. S. Iruthaya Raj

Assistant Professor

Mr. F. R. Emmanuel

Assistant Professor

Mr. A. Christopher

Assistant Professor

Mr. D. Kumanan

Assistant Professor

Dr. J. Geno Kadwin

Assistant Professor

Participants

Sl. No.	Dept. Number	Name of the student
1	23-UMT-201	NITHIYARAJ N
2	23-UMT-202	HARSHAVATH D
3	23-UMT-203	PRASANNA K
4	23-UMT-204	MOHAN BALAJI VENKATESH
5	23-UMT-205	BHAVANSANKARRAJ K
6	23-UMT-206	ANBU SELVAN A M
7	23-UMT-207	ANBILDURAI R
8	23-UMT-208	HEMA GURU M
9	23-UMT-209	EZEKIEL JUDE J
10	23-UMT-210	JEEVANANDAM
11	23-UMT-211	KADHIR D M
12	23-UMT-212	LOKESH R
13	23-UMT-213	THANGATHIRUMALAI T
14	23-UMT-214	THAMIZHVANAN R
15	23-UMT-215	THIRUMURUGASELVAM O S
16	23-UMT-216	CHARUKESH
17	23-UMT-217	PERARASU B
18	23-UMT-218	PAUL EBENEZER G
19	23-UMT-219	SHANLY HILVAS M
20	23-UMT-220	ARHAN KHAN
21	23-UMT-221	PRAKASH S
22	23-UMT-222	THEAJEESHWARAN M
23	23-UMT-223	SANJAY G
24	23-UMT-224	DHIVIYESH R
25	23-UMT-225	KOUSHIK R
26	23-UMT-226	RAJESH R
27	23-UMT-227	KANISH PRASAAD R K
28	23-UMT-228	P S PRADEEP KUMAR
29	23-UMT-229	RANJITH KUMAR R
30	23-UMT-230	JAYAJEET MANOJ MA
31	23-UMT-231	SURYANARAYANARAO A J

Programme outcome

The fledglings will get motivation to learn mathematics when they come to the regular contact classes after these activities.