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Report on Skill development 2021- "Basic Mathematical Skills"

Title	Basic Mathematical Skills
Date of Event	29.01.2021
Department/Association	Department of Science – Math π Rates club
Venue	Open Platform – Google meet
Number of Participants	21
Resource Person	Assistant Prof. Roshini Anne Koshy

Report:

Skill development 2021 in Mathematics was organized by, Desalites Skill Development Cell in association with Math π Rates club, Department of Science on "Basic skills in Mathematics" on 29th January 2021 at 1 P.M. Assistant Prof. Roshini from department of Science was the resource person. The session was conducted online using Google meet platform. The program was conducted for first year students of B.Sc (MEC, PCM and CJP).

Mathematics is the cradle of all creations, without which the world cannot move an inch. The ever changing needs of the society, and the high availability and demand for gadgets such as computers and calculators require that students be a master of basic math skills. Apart from the very basic of all math skills, the add-subtract- multiply-divide skills, there are other areas of math skills every student should learn.

The main aim of this program was to make students understand the importance of developing basic Mathematical skills, as Mathematical aptitude and logical reasoning are becoming integral part of any recruitment process. Knowledge of mathematics, and its complexities, can help in almost every career. Therefore an absence of mathematical confidence and poor mathematical skills are obstructions to employment, improved Mathematical skills lead to better paid jobs, greater well-being and a less stressful life.

The only way to learn Mathematics is to do Mathematics, students were given certain tips on how to be successful in math class and to how to overcome math anxiety. Some points on how to improve Mathematical skills like, focusing on understanding concepts, concentrating more over new concepts and practicing more problems, solving extra problems, understanding word problems, applying Math to real life, playing Math games and solving puzzles were discussed. In order to improve mathematical skills students should have a strong foundation with the basic concepts, keeping this in mind, all the important basic concepts of mathematics like different types of numbers, sign rules, law of indices, Bodmas rule, finding HCF and LCM of given numbers, fractions, basic operations on fractions, linear equations, Simultaneous equations, methods to solve simultaneous equations by substitution and elimination method were explained. Along with these few problems related to aptitude were discussed and solved. It was an interactive session, most of them were able to recall the basic concepts that they had studied in the lower classes.

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As students have lot of confusion with addition and subtraction of integers with different signs the concept was explained by solving different types of problems. Apart from these students were also explained the important Mathematical skills that they should develop like

Problem solving: This is a basic skill that each student should learn as it enables them to develop analytical thinking.

Applied Math: This is something every student should learn - applying math in everyday situations. Every day we are presented with different math situations and students should be able to handle those with confidence.

Estimation and approximation: this skill will be used almost every day. Measurements are everywhere and whatever we are buying will be estimated and approximated.

Computational skills: This is by far among the very important basic math skills one should be able to learn and understand. Everyday situations require us to be knowledgeable in computations of whole numbers or fractions, decimals and this should be done without any calculator. Basic mental computation is a must to solve daily computational problems without any hassle.

They were also explained about the advantages of developing Mathematical skills, battling successfully with ideas that are hard to understand and problems that are hard to solve will foster determination, perseverance, creativity, self-confidence, intellectual rigor and time management. Students were also given an idea about higher education in mathematics and the different career opportunities that they could get after pursuing a degree in mathematics. The mathematics major prepares students for traditional pursuits such as graduate study, teaching and work as an actuary. Students who major in mathematics have a variety of opportunities like Actuarial science, data science, Information technology and computing, business, management, consulting, teaching at the elementary or secondary school level, graduate study in mathematics or statistics, especially for an academic career, graduate study in applied mathematics or statistics, for a career in industry, business or government, graduate study in an interdisciplinary field related to the mathematical and statistical sciences. In the past half century there has been a great increase in the importance of mathematics to our society. The need for trained mathematicians at all levels is on the rise as the use of computers and automation has spread to almost all sectors of our economy. Nowadays, technological, engineering and business problems are often of such complexity that they require a high level of mathematical treatment. Whereas in the past advanced mathematics was generally restricted to the physical sciences and engineering, today there is an ever growing demand for mathematical expertise in the biological and social sciences, as well as in finance and business management and the burgeoning field of data science.

The session was conducted for one hour. Students got an idea about the importance of developing mathematical skills in today's competitive and challenging world. Students had several doubts which were clarified during the question-answer session. At the end of the session participants were given link for feedback .The feedback form had few quiz questions related to basic math, and few questions about the session. Quiz was given in order to assess what students understood from the session and also to improve their problem solving skills. Almost everyone gave correct answers to the quiz questions, they also gave a positive feedback about the session.



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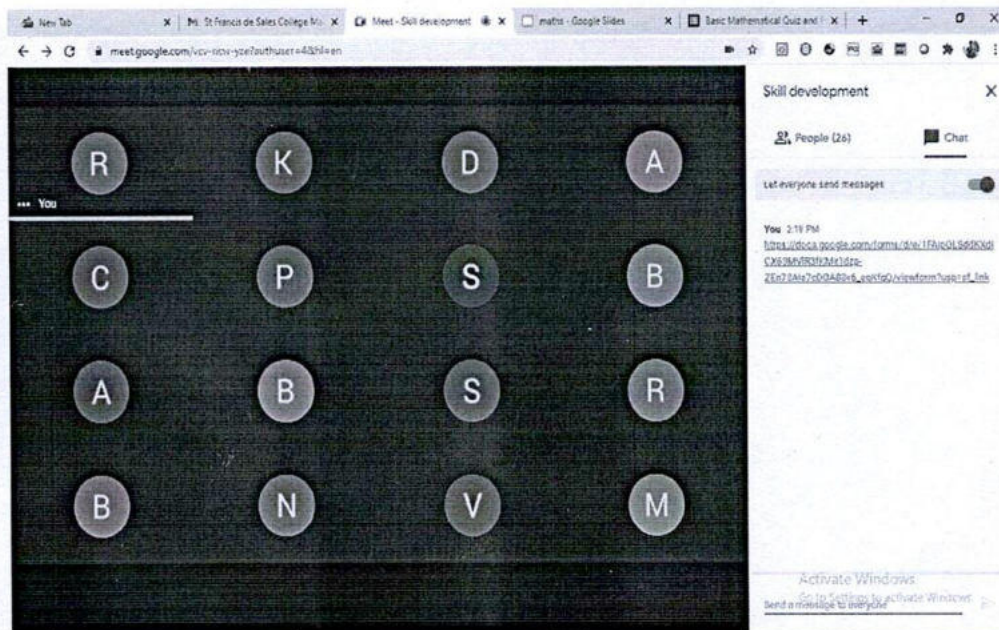
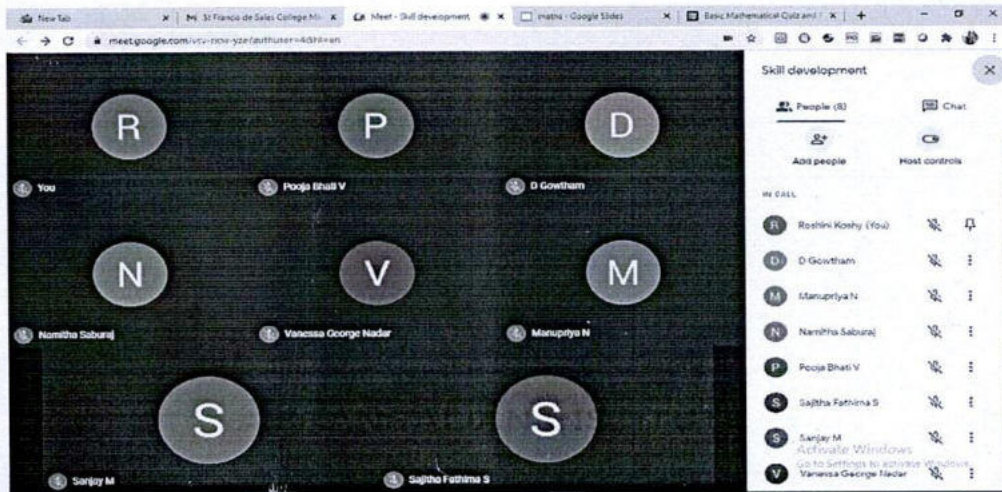
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Participant list:

Basic Mathematical Quiz and Feedback (Responses)									
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Timestamp	Email Address	Score	Name	Course	Roll no	1. -10 is a whole number 2. 8 raised to power 0 is 13. Simplify	4. Why		
1/29/2021 14:20:17	hamsavenim2325@gmail.com		HAMSAVENI M	B sc mec	20MEC014K	FALSE	a.1	c.14	c.-4
1/29/2021 14:20:58	sajithafathima333@gmail.com		Sajitha	Bsc cjp	20cjp020k	FALSE	b.0	c.14	c.-4
1/29/2021 14:22:37	rentala_3537@sfscollge.in		Rentala V.M Sreeja	Bsc MEC	20MEC008H	FALSE	a.1	c.14	c.-4
1/29/2021 14:22:57	poorjashriv@gmail.com		Pooja Bhati V	Bsc PCM	20PCM019H	TRUE	a.1	d.15	c.-4
1/29/2021 14:23:29	smithanarayanawamy76@gmail.com		Smitha N	Bsc(Cup)	20CJP012K	FALSE	a.1	c.14	c.-4
1/29/2021 14:24:12	vyshali_3542@sfscollge.in		Vyshali HN	MEC	20MEC013K	TRUE	a.1	b.16	b.-16
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1/29/2021 14:24:42	bharathn2002@gmail.com		Bharath kumar R	BSc(CJP)	20CJP003K	FALSE	a.1	c.14	c.-4
1/29/2021 14:24:48	gauthamsd765@gmail.com		Gautham.D	Bsc (cjp)	20CJP005TA	FALSE	a.1	c.14	c.-4
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1/29/2021 14:25:27	ankitha_3587@sfscollge.in		Ankitha s	1 sem Bsc (cjp)	20cjp027k	FALSE	c.8	c.14	b.-16
1/29/2021 14:25:38	devishree_3531@sfscollge.in		Devi shree r.v	Bsc mec	20MEC002K	FALSE	a.1	b.16	c.-4
1/29/2021 14:26:09	nandhinihema13@gmail.com		Nandhini G	BSC MEC	20MEC011TA	FALSE	a.1	a.11	c.-4
1/29/2021 14:26:17	dharshini_3593@sfscollge.in		Dharshini.S	Cjp	20cjp033ta	FALSE	b.0	c.14	a.16
1/29/2021 14:26:19	deepshikha_3567@sfscollge.in		Deepshikha	BSC (CJP 1st Semester)	20CJP007H	TRUE	a.1	a.11	c.-4
1/29/2021 14:27:55	sahil_3536@sfscollge.in		Sahil molah	Bsc MEC	20MEC007H	TRUE	a.1	c.14	c.-4
1/29/2021 14:28:17	vanessa_3573@sfscollge.in		Vanessa	BSC CJP	20CJP013E	FALSE	a.1	c.14	c.-4
1/29/2021 14:29:04	brinda_3530@sfscollge.in		BRINDA JENIFFER SANB.sc(MEC)		20MEC001TA	FALSE	a.1	c.14	c.-4
1/29/2021 14:38:18	raikshitha731@gmail.com		Raishitha K	Bsc(CJP)	20cjp036k	FALSE	b.0	c.14	a.16
1/29/2021 14:40:56	mallesh3534@sfscollge.in		Mallesh N	Bsc mec	20MEC0053K	FALSE	b.0	c.14	c.-4

Feedback response link.

https://docs.google.com/spreadsheets/d/1aIY6nZ78X3FdEYjPpglh7EPHpq_gJXF4_n2dg2zi3uU/edit?usp=sharing

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