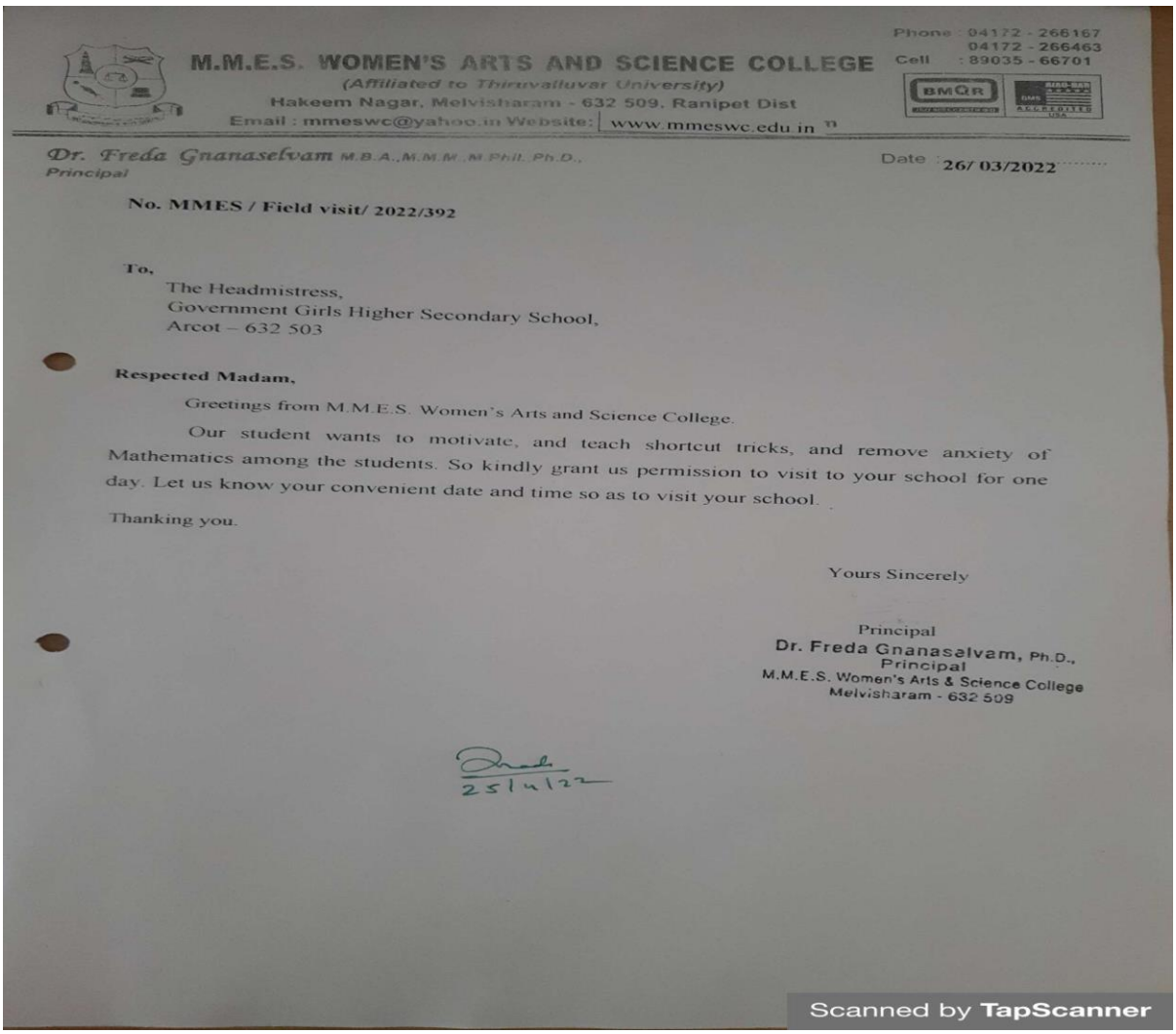
M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE
(Affiliated to Thiruvalluvar University)
HAKEEM NAGAR - MELVISHARAM- 632 509
Walaja Taluk, Arcot Block Phone: 04172 266167, 266463
Email:mmeswc@yahoo.in website:www.mmeswc.edu.in

"Awareness Programme for school students" held on 23rd April 2022 at Government Girls Higher Secondary School, Arcot.

Field Visit Report

The M.M.E.S women's Arts & Science College, Department of Mathematics had organized "Awareness Programme for school students" on 23.04.2022.Around 5 students and 5 staffs participated in this programme .During this programme, our college students presented charts to understand the concept and explain them and staffs deliver special lectures to the X,XI &XII class approximately 450 students**.**

Permission letter to visit the school



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Email : mmeswc@yahoo.in Website: www.mmeswc.edu.in
Phone : 04172 - 266167
04172 - 266463
Cell : 89035 - 66701

Dr. Freda Gnanaselvam M.B.A.,M.M.M.,M.Phil.,Ph.D.,
Principal

Date : 26/ 03/2022

No. MMES / Field visit/ 2022/392

To,
The Headmistress,
Government Girls Higher Secondary School,
Arcot – 632 503

Respected Madam,

Greetings from M.M.E.S. Women's Arts and Science College.

Our student wants to motivate, and teach shortcut tricks, and remove anxiety of Mathematics among the students. So kindly grant us permission to visit to your school for one day. Let us know your convenient date and time so as to visit your school.

Thanking you.

Yours Sincerely

Principal
Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

25/4/22

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22.04.2022

To

The correspondent,
M.M.E.S Women's Arts & Science College,
Melvisharam-632509.

Respected Sir/ Madam

Sub: Requesting to visit the school-reg

We require transportation facility to visit Government Girls Higher Secondary School, Arcot on 23.04.2022 at 1:30 p.m to 2.30 p.m.5 PG students will be accompanied by 5 staff member. We are going to teach the short tricks and importance of Mathematics to the students and to create awareness of the Mathematics.

Outcome of Visit

- Increase enrolment of students in Mathematics department.
- For inclusion in NAAC requirement.

Correspondent

Principal 22/4/22

Head of the Department 22/4/22

25/4/22

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School Entrance

Inside the School

Our college students presented the charts to the students and explain about the short tricks of mathematics,importance of mathematics in our day to day life and create awareness to the students about how mathematics is used in all the fields.


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TRIGONOMETRIC RATIOS
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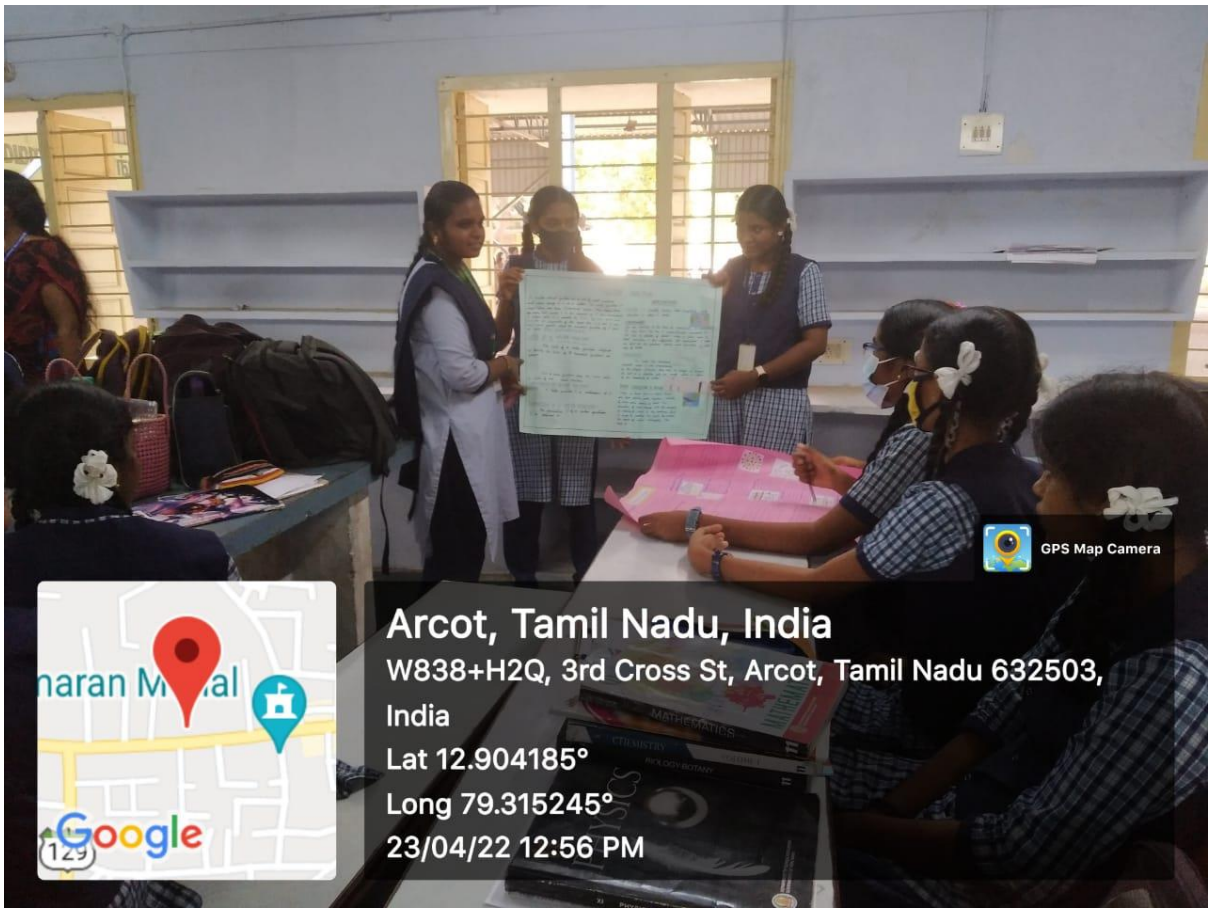
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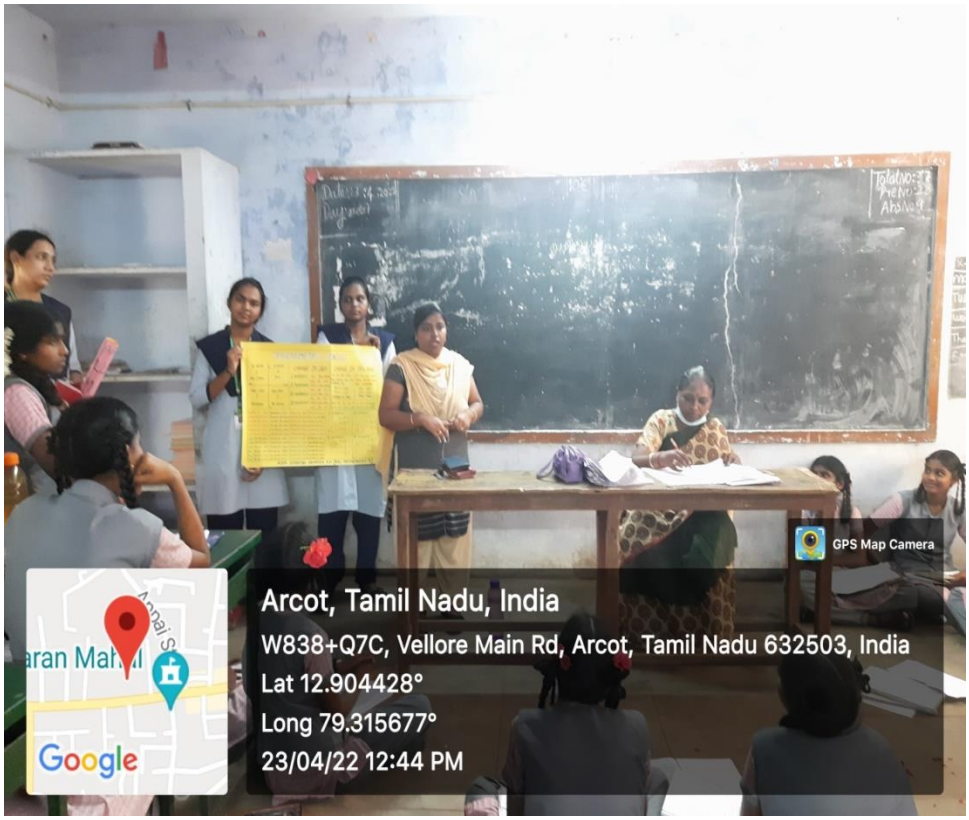
Our staffs deliver special lecture to the school students (450 students approximately) to motivate and remove anxiety of Mathematics from the students.

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Time is Gold
Social Science
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Formula book

MATHEMATICS FORMULAE

TRIGONOMETRY

θ	Degrees	0^0	30^0	45^0	60^0	90^0	180^0	270^0	360^0
	Radian	0^0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	$3\frac{\pi}{2}$	2π
$\sin\theta$		0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1	0	−1	0
$\cos\theta$		1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0	−1	0	1
$\tan\theta$		0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞	0	$-\infty$	0

TRIGONOMETRICAL IDENTITIES

- $\sin^2\theta + \cos^2\theta = 1$
- $\sin^2\theta = 1 - \cos^2\theta$
- $\cos^2\theta = 1 - \sin^2\theta$
- $1 + \tan^2\theta = \sec^2\theta$
- $\sec^2\theta - \tan^2\theta = 1$
- $1 + \cot^2\theta = \operatorname{cosec}^2\theta$
- $\tan\theta = \frac{\sin\theta}{\cos\theta}$
- $\cot\theta = \frac{\cos\theta}{\sin\theta}$
- $\sin\theta = \frac{1}{\operatorname{cosec}\theta}$
- $\cos\theta = \frac{1}{\sec\theta}$
- $\tan\theta = \frac{1}{\cot\theta}$

COMPOUND ANGLES A + B AND A – B

- $\sin(A + B) = \sin A \cos B + \cos A \sin B$
- $\sin(A - B) = \sin A \cos B - \cos A \sin B$
- $\cos(A + B) = \cos A \cos B - \sin A \sin B$
- $\cos(A - B) = \cos A \cos B + \sin A \sin B$
- $\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \,.\, \tan B}$
- $\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A \,.\, \tan B}$

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TRIGONOMETRIC RATIOS INVOLVING 2A

- $\sin 2A = 2\sin A \cos A$
- $\sin 2A = \dfrac{2\tan A}{1+\tan^2 A}$
- $\cos 2A = \cos^2 A - \sin^2 A$
- $\cos 2A = 1 - 2\sin^2 A$
- $\cos 2A = 2\cos^2 A - 1$
- $\cos 2A = \dfrac{1-\tan^2 A}{1+\tan^2 A}$
- $\tan 2A = \dfrac{2\tan A}{1-\tan^2 A}$

TRIGONOMETRIC RATIOS

- $\cos 3A = 4\cos^3 A - 3\cos A$
- $\sin 3A = 3\sin A - 4\sin^3 A$
- $\tan 3A = \dfrac{3\tan A - \tan^3 A}{1-3\tan^2 A}$

TRANSFORMATION OF A PRODUCT INTO A SUM (OR) DIFFERENCES :

- $\sin (A + B) + \sin (A - B) = 2\sin A \cos B$
- $\sin (A + B) - \sin (A - B) = 2\cos A \sin B$
- $\cos (A + B) + \cos (A - B) = 2\cos A \cos B$
- $\cos (A + B) - \cos (A - B) = -2\sin A \sin B$

- $\sin C + \sin D = 2\sin\dfrac{C+D}{2} \cdot \cos\dfrac{C-D}{2}$
- $\sin C - \sin D = 2\cos\dfrac{C+D}{2} \cdot \sin\dfrac{C-D}{2}$
- $\cos C + \cos D = 2\cos\dfrac{C+D}{2} \cdot \cos\dfrac{C-D}{2}$
- $\cos D - \cos C = 2\sin\dfrac{C+D}{2} \cdot \sin\dfrac{C-D}{2}$

SINE FORMULA

In any triangle ABC, $\dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C} = 2R$, where 'R' is the radius of circum circle of triangle ABC.

NAPIER'S FORMULAE :

In any triangle ABC

- $\tan\dfrac{A-B}{2} = \dfrac{a-b}{a+b}\cot\dfrac{C}{2}$
- $\tan\dfrac{B-C}{2} = \dfrac{b-c}{b+c}\cot\dfrac{A}{2}$
- $\tan\dfrac{C-A}{2} = \dfrac{c-a}{c+a}\cot\dfrac{B}{2}$

COSINE FORMULAE

In any triangle ABC

- $a^2 = b^2 + c^2 - 2bc\cos A$
- $b^2 = c^2 + a^2 - 2ca\cos B$

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- $c^2 = a^2 + b^2 - 2ab\cos C$

PROJECTION FORMULAE :

In any triangle ABC

- $a = b\cos C + c\cos B$
- $b = c\cos A + a\cos C$
- $c = a\cos B + b\cos A$

AREA FORMULAE :

In any triangle ABC

- $\Delta = \frac{1}{2}ab\sin C$
- $\Delta = \frac{1}{2}bc\sin A$
- $\Delta = \frac{1}{2}ca\sin B$
- $\Delta = \frac{abc}{4R}$
- $\Delta = 2R^2\sin A\,.\sin B\,.\sin C$
- $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$

INVERSE TRIGONOMETRIC FUNCTIONS (PROPERTIES)

$\sin^{-1}(\sin x) = x$ $\quad \cos^{-1}(\cos x) = x$ $\quad \tan^{-1}(\tan x) = x$

$\cot^{-1}(\cot x) = x$ $\quad \sec^{-1}(\sec x) = x$ $\quad \operatorname{cosec}^{-1}(\operatorname{cosec} x) = x$

$\sin^{-1}\left(\frac{1}{x}\right) = \operatorname{cosec}^{-1} x$ $\quad \cos^{-1}\left(\frac{1}{x}\right) = \sec^{-1} x$

$\tan^{-1}\left(\frac{1}{x}\right) = \cot^{-1} x$ $\quad \operatorname{cosec}^{-1}\left(\frac{1}{x}\right) = \sin^{-1} x$

$\sec^{-1}\left(\frac{1}{x}\right) = \cos^{-1} x$ $\quad \cot^{-1}\left(\frac{1}{x}\right) = \tan^{-1} x$

$\sin^{-1}(-x) = -\sin^{-1} x$ $\quad \cos^{-1}(-x) = \pi - \cos^{-1} x$

$\tan^{-1}(-x) = -\tan^{-1} x$ $\quad \operatorname{cosec}^{-1}(-x) = -\operatorname{cosec}^{-1} x$

$\sec^{-1}(-x) = \pi - \sec^{-1} x$ $\quad \cot^{-1}(-x) = -\cot^{-1} x$

$\sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}$

$\tan^{-1} x + \cot^{-1} x = \frac{\pi}{2}$

$\sec^{-1} x + \operatorname{cosec}^{-1} x = \frac{\pi}{2}$

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If $xy < 1$ then

$$\tan^{-1}x + \tan^{-1}y = \tan^{-1}\left(\frac{x+y}{1-xy}\right)$$

$$\tan^{-1}x - \tan^{-1}y = \tan^{-1}\left(\frac{x-y}{1+xy}\right)$$

$$\sin^{-1}x + \sin^{-1}y = \sin^{-1}\left[x\sqrt{1-y^2} + y\sqrt{1-x^2}\right]$$

$$\cos^{-1}x + \cos^{-1}y = \cos^{-1}\left[xy - \sqrt{1-x^2}\,.\,\sqrt{1-y^2}\right]$$

$$\sin^{-1}x - \sin^{-1}y = \sin^{-1}\left[x\sqrt{1-y^2} - y\sqrt{1-x^2}\right]$$

$$\cos^{-1}x - \cos^{-1}y = \cos^{-1}\left[xy + \sqrt{1-x^2}\,.\,\sqrt{1-y^2}\right]$$

MATHEMATICS – DIFFERENTIAL CALCULUS – FORMULAE

- $\frac{d}{dx}(k); k \text{ is cons}\tan t = 0$
- $\frac{d}{dx}(k.f(x) = k.\frac{d}{dx}(f(x))$
- $\frac{d}{dx}(x^n) = nx^{n-1}(n \in R)$
- $\frac{d}{dx}\left(\log_e{}^x\right) = \frac{1}{x}$
- $\frac{d}{dx}\left(\log_a{}^x\right) = \frac{\log_a{}^e}{x}$
- $\frac{d}{dx}(\sin x) = \cos x$
- $\frac{d}{dx}(\cos x) = -\sin x$
- $\frac{d}{dx}(\tan x) = \sec^2 x$
- $\frac{d}{dx}(\sec x) = \sec x \tan x$
- $\frac{d}{dx}(\cos ec\, x) = -\cos ec^2 x$
- $\frac{d}{dx}(\sin ax) = a\cos ax$
- $\frac{d}{dx}(\cos ax) = -a\sin ax$
- $\frac{d}{dx}(e^x) = e^x$
- $\frac{d}{dx}(e^{ax}) = ae^{ax}$
- $\frac{d}{dx}(\sin^{-1}x) = \frac{1}{\sqrt{1-x^2}}$
- $\frac{d}{dx}(\cos^{-1}x) = \frac{-1}{\sqrt{1-x^2}}$
- $\frac{d}{dx}(\tan^{-1}x) = \frac{1}{1+x^2}$

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- $\frac{d}{dx}\left(\cot^{-1}x\right)=\frac{-1}{1+x^2}$
- $\frac{d}{dx}\left(\sec^{-1}x\right)=\frac{1}{x\sqrt{x^2-1}}$
- $\frac{d}{dx}\left(\operatorname{cosec}^{-1}x\right)=\frac{-1}{x\sqrt{x^2-1}}$
- $\frac{d}{dx}\left(a^x\right)=a^x\,.\log a$
- $\frac{d}{dx}\left(\sqrt{x}\right)=\frac{1}{2\sqrt{x}}$
- $\frac{d}{dx}\left(\sin^n x\right)=n\sin^{n-1}x\,.\cos x$
- $\frac{d}{dx}\left(\cos^n x\right)=-n\cos^{n-1}x\,.\sin x$

SUM OR DIFFERENCE RULE

- $\frac{d}{dx}(u+v)=\frac{du}{dx}+\frac{dv}{dx}$
- $\frac{d}{dx}(u-v)=\frac{du}{dx}-\frac{dv}{dx}$
- $\frac{d}{dx}(u_1+u_2+u_3+.....+u_n)=\frac{du_1}{dx}+\frac{du_2}{dx}+\frac{du_3}{dx}+....+\frac{du_n}{dx}$

PRODUCT RULE

- $\frac{d}{dx}(uv)=u.\frac{dv}{dx}+v.\frac{du}{dx}$
- $\frac{d}{dx}(uvw)=uv.\frac{dw}{dx}+vw.\frac{du}{dx}+wu.\frac{dv}{dx}$

QUOTIENT RULE

- $\frac{d}{dx}\left(\frac{u}{v}\right)=\frac{v.\frac{du}{dx}-u.\frac{dv}{dx}}{v^2}$

CHAIN RULE : (HINT)

- Step 1 : Differentiate the power if function contains power
- Step 2 : Differentiate the function
- Step 3 : Differentiate the bracket if function contains bracket

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Eg :

$$y = \sin^3(2x^2 + 2)$$

$$\frac{dt}{dx} = 3\sin^2(2x^2 + 2) \cdot \cos(2x^2 + 2) \cdot 4x$$

↑ Step 1 ↑ Step 2 ↑ Step 3

INTEGRAL CALCULUS – INTRODUCTION

- Basic familiar pairs of inverse operations are (+, −) (x, ÷) $(()^n, \sqrt{\ })$. **Similarly differentiation and Integrations are also inverse operations.**
- The symbol $\int$ is the sign of integration. $\int$ is elongated S, which is the first letter of the word sum.
- $\int f(x)\,dx = F(x) + C$

  Here F(x) is called anti–devative or integral of a function f(x)
- The function ***f(x)*** is called **Integrand**
- The variable ***x in dx*** is called variable of integration or **integrator**
- C is called ***arbitrary constant*** (constant of integration)
- The process of finding the integral is called Integration.

TWO VISIONS OF INTEGRATION :

- Mathematician Leibnitz approached integral as the **anti–derivative of a differentiable function.**
- Mathematicians Arahimedes, Eudoxus and others developed it as a numerical value equal to the **area under the curve** of a function for some interval.

VIEW OF CALCULUS IN GEOMETRY

- The problem of finding **SLOPE OF THE TANGENT LINE TO THE CURVE** is studied by the limiting process known as **DIFFERENTIATION.**

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- $\int f'(x)[f(x)]^n dx = \frac{[f(x)]^{n+1}}{n+1} + c \quad$ *Where* $n \neq -1$
- $\int \cot x dx = \log \sin x + c$
- $\int \operatorname{cosec} x dx = \log \tan \frac{x}{2} + c$
- $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \log\left(\frac{a+x}{a-x}\right) + c$
- $\int \frac{dx}{x^2 - a^2} = \frac{1}{2a} \log\left(\frac{x-a}{x+a}\right) + c$
- $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tan^{-1}\left(\frac{x}{a}\right) + c$
- $\int \frac{dx}{\sqrt{a^2 - x^2}} = \sin^{-1}\left(\frac{x}{a}\right) + c$
- $\int \frac{dx}{\sqrt{x^2 - a^2}} = \log\left(x + \sqrt{x^2 - a^2}\right) + c$
- $\int \frac{dx}{\sqrt{x^2 + a^2}} = \log\left(x + \sqrt{x^2 + a^2}\right) + c$
- $\int e^{ax} \sin bx dx = \frac{e^{ax}}{a^2 + b^2}(a \sin bx - b \cos bx) + c$
- $\int e^{ax} \cos bx dx = \frac{e^{ax}}{a^2 + b^2}(a \cos bx + b \sin bx) + c$
- $\int \sqrt{a^2 - x^2} dx = \frac{x}{2}\sqrt{a^2 - x^2} + \frac{a^2}{2} \sin^{-1} \frac{x}{a} + c$
- $\int \sqrt{x^2 - a^2} dx = \frac{x}{2}\sqrt{x^2 - a^2} - \frac{a^2}{2} \log\left[x + \sqrt{x^2 - a^2}\right] + c$
- $\int \sqrt{x^2 + a^2} dx = \frac{x}{2}\sqrt{x^2 + a^2} + \frac{a^2}{2} \log\left[x + \sqrt{x^2 + a^2}\right] + c$

Bernoulli's Formula

- $\int uv dv = uv - u'v_1 + u''v_2 - u'''v_3 + \ldots\ldots$

Integration by parts

$\int uv dv = uv - \int vdu$

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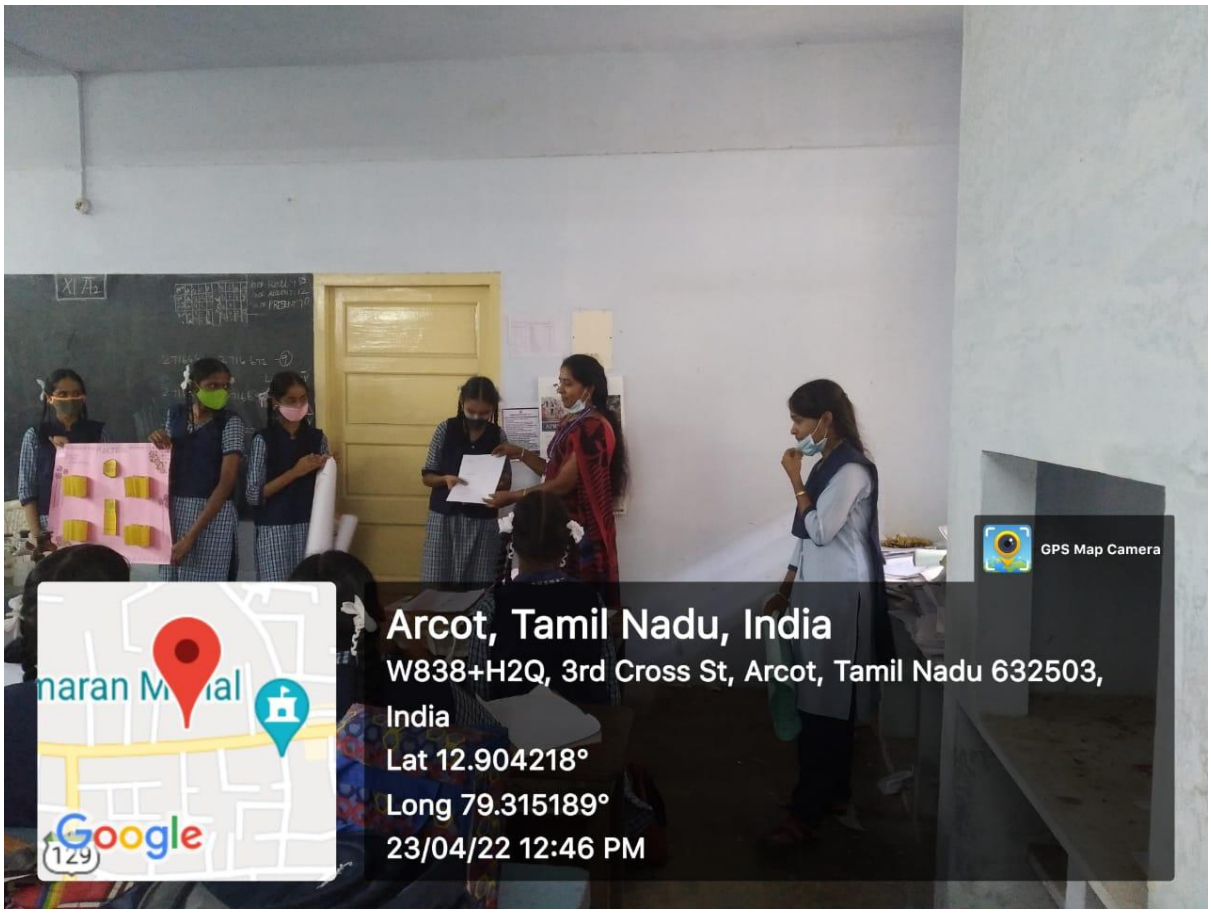
Our staff members prepared this basic formula book for the students to understand easily and we distributed the formula book to the school students those who are very interesting, creative and want this to get more knowledge in the field of mathematics.

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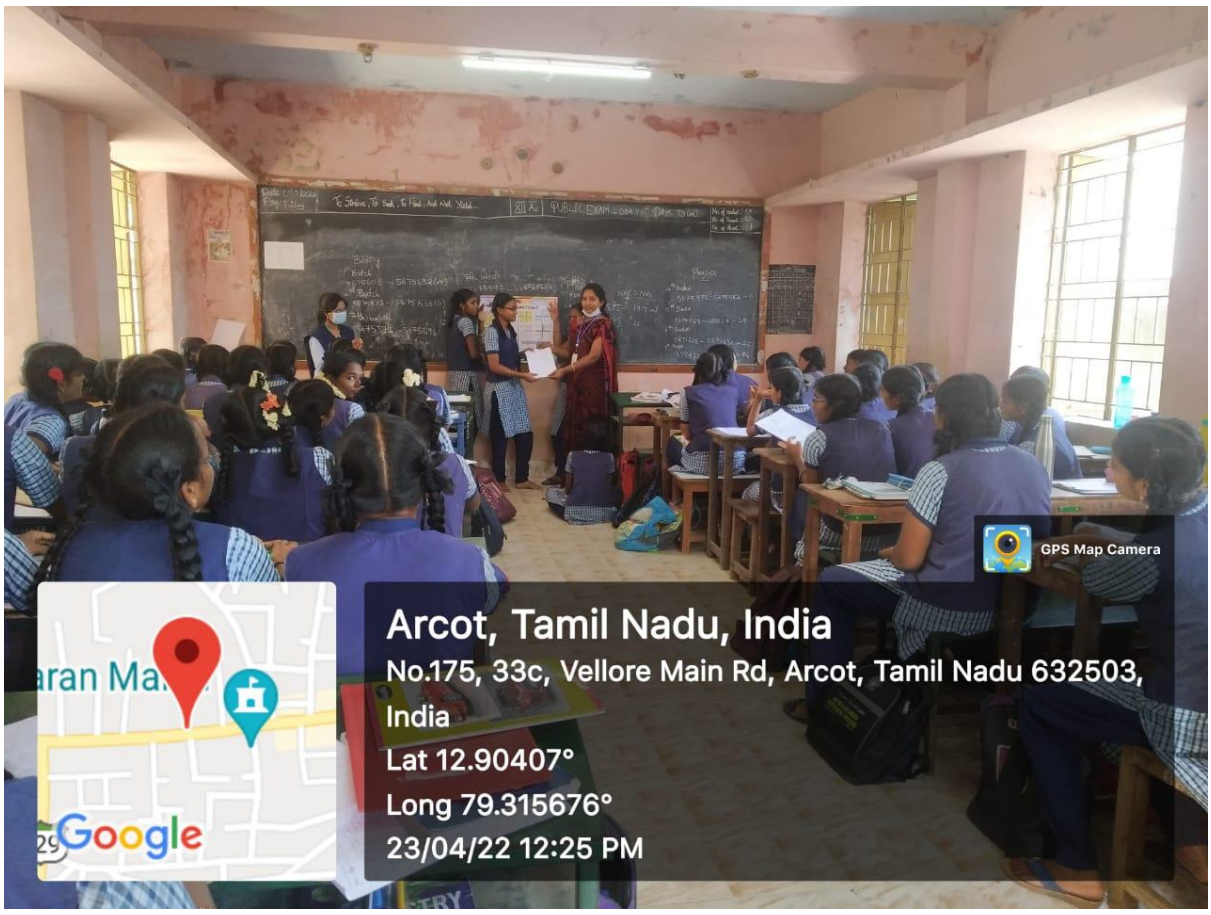
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DEPARTMENT OF MATHEMATICS

OUTREACH PROGRAM 2023-2024

M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE
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Cell : 89035 - 66701

Dr. Freda Gnanaselvam
M.B.A.,M.M.M.,M.Phil.,Ph.D.,
Principal

11 SEP 2023

To

The Headmistress,
Islamiah Girls Higher Secondary School,
Melvisharam- 632509

Respected Madam,

Sub: Outreach activity - permission to visit your institution – regarding

Greetings!

We are willing to visit your institution as part of outreach activity along with students and staff members. Kindly give us your favorable date and time for visit to the institution.

Thanking you,

Yours Sincerely

11/9/23
Principal

Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE

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11 SEP 2023

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11/9/23
Principal

Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

I gave Permission to Conduct the outreach Program on 13.9.2023 from 2.00 P.M to 4.00 P.M.

11/09/23
HEAD MISTRESS
Islamiah Girls Hr. Sec. School
Melvisharam - 632 509

M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE

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12.09.2023

To

The Principal,
M.M.E.S Women's Arts and Science College,
Melvisharam-632509.

Respected Madam,

Sub: Requesting to visit the school-reg

Islamiah girls higher secondary school, Melvisharam, gave the permission to visit their school on 13th September, 2023, from 2:00 p.m. to 3.00 p.m. So we request you to give the permission to visit the school. 11 M.Sc. students and 15 III B.Sc. students will be accompanied by Miss B. Aruna, Mrs. D. Radha, and Mrs. R. Agalya. We are going to create an awareness about an importance, applications, and benefits of mathematics in day to day life.

12/9/2023.
HEAD OF THE DEPARTMENT

Head of the Department
Department of Mathematics
M.M.E.S. Women's Arts & Science College
MELVISHARAM - 632 509.

PRINCIPAL
Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

CERTIFICATE OF APPRECIATION

The Headmistress,
Islamiah Girls Higher Secondary School,
Melvisharam -632509.

Respected Madam,

I take pleasure in certifying that the Department of Mathematics of M.M.E.S. women's Arts and Science College, Melvisharam, Ranipet District 632509 has conducted the outreach program under the guidance of Mrs. R. Agalya, Mrs. D. Radha, Ms B Aruna and 26 students of M.Sc., Mathematics and B.Sc., Mathematics are participated in this program. They taught importance of mathematics, short way to memories the mathematical formulae, and some interesting mathematical games to motivate the students.

With Regards

13/09/23.

HEAD MISTRESS
Islamiah Girls Hr. Sec. School
Melvisharam - 632 509

ISLAMIAH GIRLS HIGHER SECONDARY SCHOOL
Melvisharam
632 509

Date: 13.09.2023

Place: Melvisharam

M.M.E.S. WOMEN'S ARTS AND SCIENCE COLLEGE
(Affiliated to Thiruvalluvar University)
HAKEEM NAGAR - MELVISHARAM- 632 509

DEPARTMENT OF MATHEMATICS

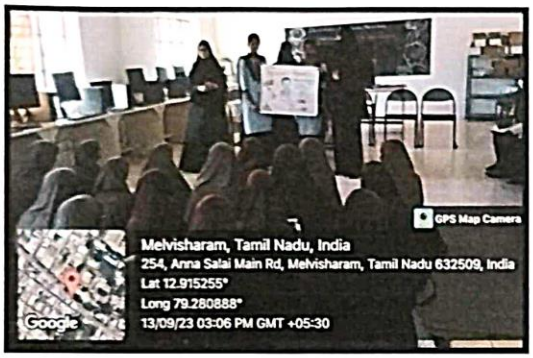
OUTREACH PROGRAM 2023-2024

Date : 13.09.2023

Venue : ISLAMIAH GIRLS HIGHER SECONDARY SCHOOL, MELVISHARAM

In order to visit the Islamiah Girls Higher Secondary School in Melvisharam on 13 September, 2023, 11 Pg students and 15 III Ug students areparticipated in an outreach program accompanied by Miss B. Aruna, Mrs. D. Radha, and Mrs. R. Agalya from the Department of Mathematics. Students and staff conducted a variety of mathematics games, riddles and create an awareness about the benefits and importance of mathematics. For the benefit of the 85 school students, faculty and our students held a discussion about how mathematics plays a significant part in daily life and how it connects to all courses such as physics, chemistry, biology, history, and diverse fields such as medicine, archaeology, etc.

Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509



Dr. Freda Gnanaselvam, Ph.D.,
Principal
M.M.E.S. Women's Arts & Science College
Melvisharam - 632 509

PARTICIPANTS LIST:

S.NO	NAME	CLASS
1	CHANDHANASHREE. T	II M.Sc., MATHEMATICS
2	KAAVIYA. K	II M.Sc., MATHEMATICS
3	KAVIYA.V	II M.Sc., MATHEMATICS
4	RAJESHWARI. B	II M.Sc., MATHEMATICS
5	SABRIN. N	II M.Sc., MATHEMATICS
6	SHAFIA AMBER. M. A	II M.Sc., MATHEMATICS
7	SOWMIYA. M	II M.Sc., MATHEMATICS
8	SRIVARSHANI. R	II M.Sc., MATHEMATICS
9	UZMA NOUREEN. A	II M.Sc., MATHEMATICS
10	DHURGA. T	I M.Sc., MATHEMATICS
11	AISHA SIDDHIQA SAMREEN. K. H	I M.Sc., MATHEMATICS
12	AYISHA SIDDIGA. M. J.	III B.Sc., MATHEMATICS
13	DEEPA. R	III B.Sc., MATHEMATICS
14	FARHEEN. Y	III B.Sc., MATHEMATICS
15	JAYASHREE. E	III B.Sc., MATHEMATICS
16	KAVIYA PRIYA. R	III B.Sc., MATHEMATICS
17	KAVIYA. S	III B.Sc., MATHEMATICS
18	MADHUMITHA. M	III B.Sc., MATHEMATICS
19	MEENA. M	III B.Sc., MATHEMATICS
20	MOHANAPRIYA. K	III B.Sc., MATHEMATICS
21	NANDHINI. K	III B.Sc., MATHEMATICS
22	PAPITHA. P	III B.Sc., MATHEMATICS
23	PRAMILADEVI. M	III B.Sc., MATHEMATICS
24	PREETHIKA. M. S	III B.Sc., MATHEMATICS
25	SASIKALA. B	III B.Sc., MATHEMATICS
26	VIJAYALAKSHMI. A	III B.Sc., MATHEMATICS

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