## NTR Government Degree College for Women-Mahabubnagar

**Department of Mathematics** 

Academic Year: 2021-2022

Best Practices: "Math Type"

For the academic year department of mathernatics is planned to implement the "Math Type" concept as a best practice to the Students of 300 year mpc T/m and the faculty of maths. In this psegsamm Dr Asst Prof. Dept of mathematics. T- Vijayalazmi intseduce and practice the students and faculty how to type the mathernatical equations and formule by using the math Type. It is useful to the faculty in preparation of question paper auz.et of Dec 2021 and the Schedule is as follows Dweek- Introduction ill week- Practice pek - Sample test.

T- Deek: > In this week complete introduction were given to the segisteral students and faculty about all symbols like & n. S \$3. \$5 \$ \$ \$ \$ \$ \$ \$ \$ \$ Math Type is a graphical editor to mathematical equations, allowing entry with mouse or keyboard it is a software application created by person science that allows the creation of mathematical notion to inclusion in desktop and web application

I & I Deek: > In the 2 nd and 3 nd week equations and formulas were practised by the students and staff. The start the Math Type first select math Type as psefersed equation editor by going to Pages menu, pseferences, then in Equation in Equation preferences selecting to use math Type. To insert equation, go to Instert. Equations then type equation in dialog. box that appears. When finished close box, and equation will appear in pages document.

by following the above procedure students practi--sed all type equations such as algebraic expon -ential triggrometric and Ordinary Partial Differen -tral Equation W-Week! Finally we conducted a small test in the compater science Lab. on Math Type". T. Rajeshworsi GIM G.J. Musalilamth Par Ch. Poubli (Dr T. Vijayalaxenii) Head Dept. Of Mathematy Mahabubnagar.

Name

4)

: CH RAVALI

Designation: LECTURER ( MATHEMATICS)

- 1) Sphere Equation:  $x^2+y^2+z^2+2ux+2vy+2wz+d=0$
- 2) Mass, Energy Equation: E=mc<sup>2</sup>
- 3) General form of Parabola Equation :  $y^2=4ax$

$$u = \cot^{-1} \left( \frac{x + y}{x^2 + y^2} \right)$$



Name

: KALEEDA BEGUM

Roll No

: 20033030468063

Class

: BSc -II nd Year

- 1)  $\overline{y}$  is the Linear combination of  $\{v_1, v_2, \dots, v_n\}$  then  $\overline{y} = a_1 \overline{v_1} + O_2 \overline{v_2} + \dots + a_n \overline{v_n}$
- 2) General form of ellipse equation :  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
- 3) Einstein's Theory of special Realtivity: E=mc².
- 4) Wave Equation :  $\frac{\partial^2}{\partial t^2} = C^2 \frac{\partial^2}{\partial x^2}$

Name : A SHALINI

Roll No : 20033030468010

Class : BSc -II nd Year

1) 
$$Sec^2 \theta - tan^2 \theta = 1$$

$$2) \qquad \frac{d}{dx}(x^n) = nx^{n-1}$$

3) Bernoulli's Equation 
$$\frac{dy}{dx} + py = Q.y^n$$

4) Circle Equation at the Point (h,k)

$$(x-h)^2 + (y-k)^2 = r^2$$

## G.J. MURALI KANTH

Lecturer in Mathematics, N.T.R GOVT DEGREE COLLEGE, Mahaboob nagar

$$1.\sin^2 x + \cos^2 x = 1$$

$$2.(1+x)^{n} = 1 + nx + \frac{n(n+1)}{2}x^{2} + \dots$$

$$3.(a+b)^3 = a^3 + b^3 + 3ab(a+b)$$

$$4.\frac{d}{dx}(x^n) = nx^{n-1}$$

$$5.\int \frac{1}{x} dx = \log x + c$$

## G.J. MURALI KANTH

Lecturer in Mathematics, N.T.R GOVT DEGREE COLLEGE, Mahaboob nagar

1. The roots of the equation 
$$ax^2 + bx + c = 0$$
 are  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$   
 $2.(a+b)^n = nc_0a^n + nc_1a^{n-1}b + ... + nc_ra^{n-r}b^r + ... + nc_nb^n$ 

$$3.(a+b)(a-b) = a^2 - b^2$$

$$4.\sin(A+B) = \sin A \cos B + \cos A \sin B$$

$$5. \int x^n dx = \frac{x^{n+1}}{n+1} + c$$



Name

: Bhagya Rekha.

**Roll No** 

: 2003-3030-467-003

Class

: BSc -II nd Year

- 1) Plane Equation :  $\frac{x^2}{a^2} = \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$
- 2)  $u = x^2 + y^2$  then  $\frac{\partial u}{\partial x} = 2x$
- 3) Linear Equation :  $\frac{dy}{dx} + Py = Q$
- 4)  $\sin^2\theta + \cos^2\theta = 1$

## G.J. MURALI KANTH

Lecturer in Mathematics, N.T.R GOVT DEGREE COLLEGE, Mahaboob nagar

$$1.\sec^2 x - \tan^2 x = 1$$

$$2.nc_r = \frac{n!}{r!(n-r)!}$$

$$3.\int_{a}^{b} f'(x)dx = f(b) - f(a)$$

$$4.e^{\log x} = x$$

$$5.\lim_{x\to 0}\frac{\sin x}{x}=1$$

Name

: P. Kavitha.

**Roll No** 

: 2103-3030-468-132

Class

: BSc -II nd Year

- 1) Circle Equation:  $x^2+y^2+2gx+2fy+c=0$
- 2) First order, First Degree Differential Equation  $\frac{dy}{dx} = f x_0^2 y$
- 3) Plane equation : ax+by+cz+d=0
- 4)  $\int x^n.dx = \frac{x^{n+1}}{n+1}$

PRINCIPAL N.T.R.G.D.C.(W) Mahabubnagar.