

National Mathematics Day – 2022

Date: December 22, 2022

Brief Report:

Department of Mathematics, KSN Got. Degree College for Women, Anantapur, celebrated National Mathematics Day with great fervour and enthusiasm on December 22, 2022. The event aimed to commemorate the birth anniversary of the renowned Indian mathematician, Srinivasa Ramanujan, and to promote the importance of mathematics in education and research.

Event Highlights:

1. **Inaugural Address by Dr. P. Sankaraiah, Principal:** Dr. P. Sankaraiah, the Principal of KSN Got. Degree College for Women, inaugurated the event with an insightful address. He emphasized the significance of mathematics in various fields and commended the efforts of the college in promoting mathematical education. Dr. Sankaraiah urged students to develop a love for mathematics and explore its applications in real-world scenarios.
2. **Keynote Speech by JS Parveen, IQAC Coordinator:** JS Parveen, the Coordinator of the Internal Quality Assurance Cell (IQAC), delivered a keynote speech highlighting the role of mathematics in fostering critical thinking and problem-solving skills. She encouraged students to embrace the challenges posed by mathematical concepts and apply them creatively in their academic pursuits.
3. **Address by S. Lakshmi Rangaiah, Vice-Principal:** S. Lakshmi Rangaiah, the Vice-Principal, spoke about the contributions of Srinivasa Ramanujan to the field of mathematics and the inspiration his work provides to aspiring mathematicians. She encouraged students to delve into the world of mathematics with curiosity and dedication.
4. **Faculty Contributions:** The faculty members of the Department of Mathematics shared their experiences and insights into the teaching and learning of mathematics. They discussed innovative teaching methodologies and the importance of fostering a positive learning environment.
5. **Student Feedback Session:** A feedback session was conducted with students Uday Sree, Kalyani, and Vineela, who shared their thoughts on the celebration and their experiences with mathematics. The students expressed appreciation for the efforts of the college in organizing such events and discussed how their understanding and interest in mathematics have evolved.

Conclusion: The National Mathematics Day celebration at KSN Got. Degree College for Women, Anantapur, was a resounding success, fostering a deeper appreciation for mathematics among students and faculty. The speeches by the college leadership and faculty, coupled with the insightful feedback from students, highlighted the importance of celebrating the subject and promoting its study. The event served as a platform for fostering a positive

attitude towards mathematics and encouraging students to explore the endless possibilities that the field offers.







KSN Govt. Degree College for Women :: Anantapur
Department of Mathematics
Activity: International Day of Mathematics (Pi Day) – 2022

Date:14-03-2022

Brief Report

Objective: Pi Day is an annual opportunity for math enthusiasts to recite the infinite digits of Pi, talk to their friends about math, and eat pie.

Procedure: We the faculty of Department of Mathematics celebrates International Day of Mathematics (Pi Day) on 14-03-2022. The theme chosen for 2022 was Mathematics Unites which was proposed by Yuliya Nesterova, a graduate student from the University of Ottawa in Canada. She explains: “Mathematics unites, to signal that it is a common language we all have and a common subject with which to find one another”. We gave a power point presentation on history of pi and created awareness about importance of pi value among our students.

Outcomes: Students learned about Pi which has been calculated to over 50 trillion digits beyond its decimal.





From
Department of Mathematics
KSN Govt. Degree College for Women
Ananthapuramu.

Ananthapuramu
Date: 13-03-2022

To
The Principal
KSN Govt. Degree College for Women
Ananthapuramu.

Sir,

Sub: Requisition to celebrate International Day of Mathematics (Pi Day) on 14-03-2022 – Permission – Reg.

From the Department of Mathematics, we have decided to celebrate International Day of Mathematics (Pi Day) on 14-03-2022. We request you to give permission International Day of Mathematics.

Thanking you.

Yours faithfully

T. Renuka Devi
13/03/22

Lecturer in Mathematics
KSN Govt. Degree College for Women
ANANTHAPURAMU - 515 001

KSN Govt. Degree College for Women :: Anantapur
Department of Mathematics
Activity: Quiz using PLICKERS

Date:30-03-2022

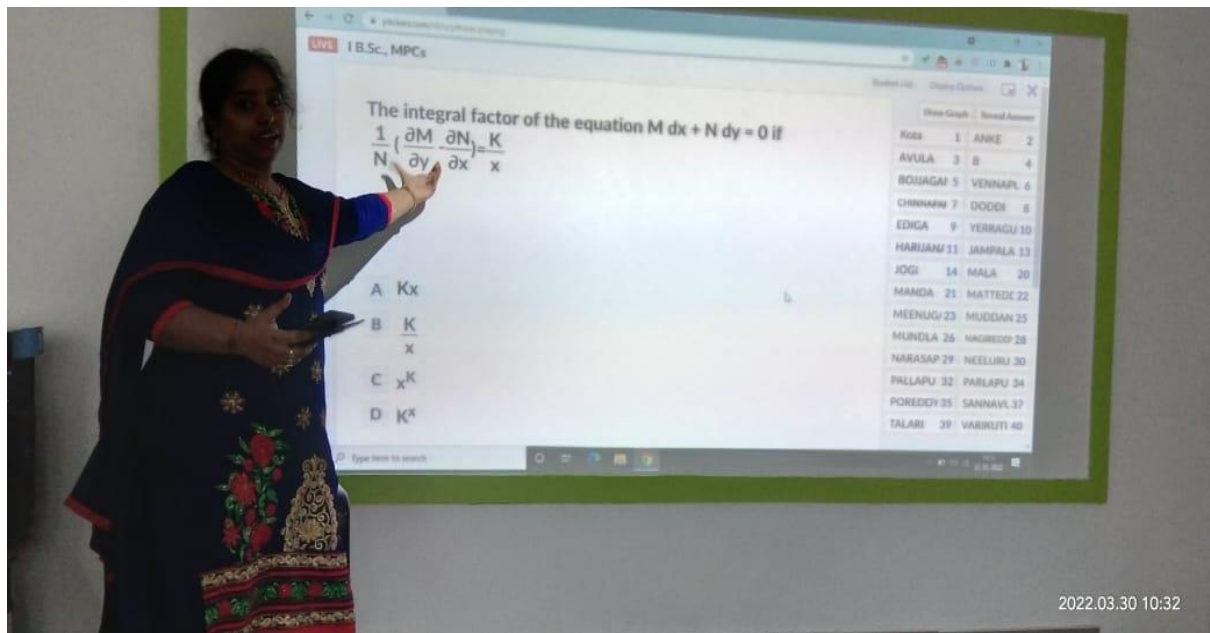
Brief Report

Objective:By taking quiz, students able to identify what they know and what they don't know. The online quiz system PLICKERS simplifies the task and reduce the paper work.PLICKERS are intended to encourage fun learning methods.

Procedure:We the faculty of Department of Mathematics conducted a quiz program using PLICKERS for I MPCs and I MSCs students. We design 3 sets in Plickers platform and each set consist of 5 questions to test the understanding levels of our students. The answers given by students were recorded through plicker cards and reports are generated instantly.

Outcomes:Students tests their knowledge level by taking this quiz. They participated actively and enjoyed by using plicker cards to answer the questions.





March 2022											
Your Classes											
- I B.Sc., MPCs - ii bsc - II MPC - II MPCs - III MPC & MECs - III MPCs											
Differential Equations - 1 30 Mar 2022 30%											
Name ^	Total	The degree of the below differential	The order of the differential equation	The degree of the homogeneous	The general solution of the differential equation y''+x^2y'	The necessary and sufficient condition for	The integral factor of the equation M dx + N dy = 0	The orthogonal trajectories of	The solution of the differential equation y''+2y'	The solution of the differential equation y''+x^2y'	The value of 1/D^2 (x^2+y^2)
Class Average	39%	4%	21%	29%	36%	61%	71%	46%	57%	18%	50%
ANKE	70%	C	C	C	A	C	C	B	B	B	C
AVULA	40%	A	B	C	A	C	A	D	B	B	C
B	40%	A	B	C	C	B	A	B	B	B	D
BOJJAGANI	50%	A	D	A	C	C	C	B	D	A	C
CHINNAPAREDDY	50%	A	B	A	C	C	C	B	D	A	C
DODDI	20%	A	B	B	A	A	A	A	B	B	C
EDIGA	50%	A	B	D	C	C	C	C	B	A	C
HARIJANA	40%	A	B	C	A	C	C	B	C	B	B
JAMPALA	10%	C	A	D	B	A	B	D	C	A	C
JOGI	30%	D	C	D	A	A	D	A	A	C	B
Kota	50%	A	C	D	B	C	C	C	B	A	C
MALA	40%	A	B	C	D	A	B	B	B	C	B
MANDA	40%	B	B	C	D	A	C	B	C	C	B
MATTEDDULA	20%	A	B	A	B	A	C	A	B	A	A
MEENUGA	60%	B	C	D	B	C	C	B	B	C	B
MUNDE	50%	A	D	D	A	C	C	B	B	A	C
MUNDLA	30%	A	C	D	D	A	A	B	B	B	B
NAGIREDDY	60%	A	B	C	C	C	C	C	B	D	C

Differential Equations - 1 30%

I B.Sc., MPCs

Played Wednesday 30 March 2022 10:19 AM

STUDENT OVERVIEW

A-Z				HIGH-LOW			
ANKE	60%	HARIJANA	40%	MEENUGA	40%	PARLAPU	0%
AVULA	40%	JAMPALA	0%	MUDDANNA	20%	POREDDY	20%
B	40%	JOGI	40%	MUNDLA	20%	SANNAVULA	20%
BOJJAGANI	40%	Kota	40%	NAGIREDDYPALLI	60%	TALARI	20%
CHINNAPAREDD...	40%	MALA	20%	NARASAPURAM	20%	VARIKUTI	40%
DODDI	0%	MANDA	20%	NEELURU	20%	VENNAPUSA	40%
EDIGA	40%	MATTEDDULA	0%	PALLAPU	60%	YERRAGUNTA	40%

QUESTIONS

ALL ANSWERED

The degree of the below differential 4%

The order of the $y'' = 2x + 3$ 21%

The degree of the homogeneous 29%

Differential Equations - 2 49%

I B.Sc., MPCs

Played Wednesday 30 March 2022 10:34 AM

STUDENT OVERVIEW

A-Z				HIGH-LOW			
ANKE	80%	HARIJANA	40%	MEENUGA	80%	PARLAPU	60%
AVULA	40%	JAMPALA	20%	MUDDANNA	80%	POREDDY	20%
B	40%	JOGI	20%	MUNDLA	40%	SANNAVULA	20%
BOJJAGANI	60%	Kota	60%	NAGIREDDYPALLI	60%	TALARI	40%
CHINNAPAREDD...	60%	MALA	60%	NARASAPURAM	40%	VARIKUTI	20%
DODDI	40%	MANDA	60%	NEELURU	40%	VENNAPUSA	20%
EDIGA	60%	MATTEDDULA	40%	PALLAPU	60%	YERRAGUNTA	100%

QUESTIONS

ALL ANSWERED

The integral factor of the equation $M dx + N dy = 0$ 71%

The orthogonal trajectories of 46%

The solution of differential equation 57%

Differential equation - 3 51%

I B.Sc., MSCs

Played Wednesday 30 March 2022 11:08 AM

STUDENT OVERVIEW

A-Z				HIGH-LOW			
BALA	100%	EADI	40%	KARNENNAGARI	60%	N	60%
BOYA	80%	GUNDALAPPAGA...	40%	KURUBA	40%	SAKE	60%
CHAKALI	60%	K M	40%	MALINGAPPA	40%	YAMPALAKU	20%
CHINTHAMEKALA	40%	KAMBALAYYAGA...	40%	MALLIREDDY	60%	YARRAVULA	40%
DASARI	60%	KAMMARA	60%	MARUTHESH	20%		

QUESTIONS

ALL ANSWERED

A solution of $(\sin x - x \cos x)y'' - (x - \sin x)y' + y \sin x = 0$ 5%

The solution of $\frac{dy}{dx} + p(x)y = Q(x)$ where $1 + P + Q = 0$ is 63%

The PI of $f(t) = x$ is 89%

ANKE HEMALATHA

01 March - 31 March 2022

70%

7 correct · 3 incorrect · 0 missed

1 Differential Equations - 1

60%

INCORRECT

- 1.1 The degree of the below differential equation is

$$\frac{d^2 y}{dx^2} = \log\left(\frac{dy}{dx}\right) + y$$

- A 2
B 0
☐ C 1
☒ Not Defined

CORRECT

- 1.2 The order of the differential equation

$$\left(\frac{d^2 y}{dx^2}\right)^3 = \left(\frac{dy}{dx} + \frac{d^4 y}{dx^4}\right)^{3/2} + y^5$$

- A 2
B 3
☒ 4
D 5

CORRECT

- 1.3 The degree of the homogeneous function

$$\frac{\sqrt[3]{x} + \sqrt[3]{y}}{x+y}$$

- A 3
B 2
☒ -2/3
D -3/2

INCORRECT

- 1.4 The general solution of

$$\frac{dy}{dx} = \frac{y}{x} + \tan\left(\frac{y}{x}\right)$$

- ☐ A $\sin\left(\frac{y}{x}\right) = c$
B $\cos\left(\frac{y}{x}\right) = c$
☒ $\sin\left(\frac{y}{x}\right) = cx$
D $\cos\left(\frac{y}{x}\right) = cx$

CORRECT

- 1.5 The necessary and sufficient condition for the equation $M dx + N dy = 0$ is exact ?

- A $\frac{\partial M}{\partial x} = \frac{\partial N}{\partial y}$
B $\frac{\partial M}{\partial x} = -\frac{\partial N}{\partial y}$
☒ $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$
D $\frac{\partial M}{\partial y} = -\frac{\partial N}{\partial x}$

2 Differential Equations - 2

80%

CORRECT

- 2.1 The integral factor of the equation $M dx + N dy = 0$ is if

$$\frac{1}{N} \left(\frac{\partial M}{\partial y} - \frac{\partial N}{\partial x} \right) = \frac{K}{x}$$

- A Kx
B $\frac{K}{x}$
☒ x^K
D K^x

CORRECT

2.2 The orthogonal trajectories of family of parabola $y^2=4ax$ is

- A Hyperbola family
- ☒ B Ellipse family
- C Parabola family
- D Circle family

CORRECT

2.3 The solution of differential equation $p^2-xp+y=0$ where $p=\frac{dy}{dx}$

- A $x=cy-c^2$
- ☒ B $y=cx-c^2$
- C $y=cx$
- D $x=cy$

INCORRECT

2.4 The solution of the differential equation $y^n-y=0$ satisfying $y(0)=0, y'(0)=2$ is

- A $y=e^x+e^{-2x}$
- ☒ B $y=e^x+e^{-x}$
- C $y=e^x-e^{-x}$
- D $y=e^x-2e^{-x}$

CORRECT

2.5 The value of $\frac{1}{D+2}(x+e^x)$

- A $x-\frac{1}{2}+e^x$
- B $x-\frac{1}{2}+\frac{e^x}{3}$
- ☒ C $\frac{x}{2}-\frac{1}{4}+\frac{e^x}{3}$
- D $x+\frac{1}{2}+e^x$

KSN Govt. Degree College for Women :: Anantapur
Department of Mathematics
Activity: Study Visit to ECE Department, JNTU Anantapur

Date: 28-02-2022

Brief Report

Objective: The objective of this visit is to promote interest in science and technology. Engages students in learning new facts and inventions with a zeal of interest. Explore the creative talent of the students and force them to think outside of the box.

Procedure: On 28-02-2022, we the faculty of Department of Mathematics visited a science exhibition program conducted by ECE Department in JNTU Anantapur along with our students on the occasion of “National Science Day”. This science exhibition was named “National Mega Expo – 2022”. It was an excellent event for the students. They had a chance of knowing many scientific breakthroughs over the previous year and gather new ideas and experience.

Outcomes: By this visit to National Mega Expo-2022, our students learn the new ideas and innovations in Science and Technologies. It develops scientific attitude in our students.





Ananthapuramu
28.02.2022

From
Department of Mathematics
K.S.N. Govt. Degree College (W)
ANANTHAPURAMU
To
The Principal
K.S.N. Govt. Degree College (W)
ANANTHAPURAMU

Respected Sir,

Sub: Requisition for Field trip to Science Exhibition in ECE Department in JNTU, Ananthapuram town on 28.02.2022 - permission - reg.

We would like to visit Science Exhibition in ECE Department in JNTU, Ananthapuram on 28.02.2022 with students of B.Sc., students as a field trip. This visit will help the students as they can gain practical knowledge about scientific methods and concepts. This will help to broaden and brighten the horizons of thinking. So, please permit us to visit Science Exhibition in ECE Department in JNTU, Ananthapuram along with students. The following staff members are accompanying the students.

1. T. Renuka Devi, Lecturer in Mathematics *T. Renuka Devi* 28/2/22
2. Y. Pradeeptha, Lecturer in Mathematics *Y. Pradeeptha* 28-02-22

permitted
[Signature]
28.2.2022

Thanking you sir,

Yours faithfully

T. Renuka Devi
28/2/22

KSN Govt. Degree College for Women:: Anantapur

Department of Mathematics & Economics

List of students attending field trip

S.No	Name of the Student	Group	Signature
1	K. Moumika	III MPCs	K. moumika
2	S. Shalin	III MPC	S. Shalin
3	G. Chinmi	III MPCs	G. chinmi
4	P. Lakshmi	II mecs	P. lakshmi
5	M. Pavithra	II mecs	M. Pavithra
6	M. Suetta	II mecs	M. Suetta
7	A. Mythili	II mecs	A. Mythili
8	M. Keerthi	II mecs	M. Keerthi
9	Y. Manasa	II mecs	Y. Manasa
10	V. Anusha	II mecs	V. Anusha
11	G. Sailaja	II mecs	G. sailaja
12	B. Vani	II mecs	B. Vani
13	C. mamatha	II mecs	C. mamatha
14	E. Haritha	II MPCs	E. Haritha
15	B. Siri	II MPC	B. Siri
16	P. Anusha	III B.A	P. Anusha
17	M. Sudhakarani	III B.A	M. Sudhakarani
18	C. Kairunbee	III BA	C. Kairunbee
19	V. Kavitha	III B.Com	V. kavitha
20	D. Kavitha	III B.com	D. Kavitha
21	S. Indralaya	II BCC	S. Indralaya
22	S. padmavathi	II B.Sc	S. padmavathi

T. Renu D.
Signature of the Lecturer 28/2/22.

Signature of the Principal

28.2.2022

KSN Govt. Degree College for Women :: Anantapur
Department of Mathematics
Activity: Visit to Rainbow Home, Anantapur

Date: 28-02-2022

Brief Report

Objective: The objective of this visit is to support children in need of care and protection and to help destitute poor, neglected needy and orphan children. A visit to an orphanage is a life-changing experience as it is filled with emotions and sentiments.

Procedure: We the Department of Mathematics and Department of Economics had visited "Rainbow Home" where girl children are sheltered in the home. We and students from III B.Sc & B.A. had collected fund total 12500/- from staff, students and outsiders also and donated in Rainbow home.

Outcomes: By this visit our students learn, helping orphanages and orphans include volunteer training, allowing them to gain new skills and devote their time to helping people not only within our community but near and far.





Samsung Quad Camera
Shot with my Galaxy M31s



Samsung Quad Camera
Shot with my Galaxy M31s



Samsung Quad Camera
Shot with my Galaxy M31s

Ananthapuram
28-02-2022

From
Department In Charge
Department of Mathematics
Ananthapuram
To
The Principal
K.S.N. Govt. Degree College (W)
Ananthapuram

Sir,

I submit the following lines for your consideration.

On behalf of the Department of Mathematics, staff members of Mathematics Department and students have collected cash and we are planning to donate in "Rainbow Home", Lakshmi Nagar. This Practice may help to sensitize students and improvement of their behavior towards orphan people. In this connection, we want to accompany the following students of I B.Sc., all combinations.

I request you kindly give the permission and we, 2 staff members are accompanying the students.

1. T. Renuka Devi, Lecturer in Mathematics

T. Renuka Devi
28/2/22

2. Y. Pradeeptha, Lecturer in Mathematics

Y. Pradeeptha
28.02.22

Thanking you,

Yours faithfully

T. Renuka Devi
28/2/22

permitted
29.2.2022