

**ONE-WEEK FACULTY DEVELOPMENT PROGRAMME ON  
'MATHEMATICAL APPLICATIONS AND MODELS'**

**20<sup>th</sup> to 27<sup>th</sup> AUGUST 2022**

**ORGANIZED BY: DEPARTMENT OF MATHEMATICS & STATISTICS**

One-Week Faculty Development Programme was organized by the Department of Mathematics and Statistics on "MATHEMATICAL APPLICATIONS AND MODELS" by Dr. P. Satyanaraya Sarma, Retd. teacher, Sisu vidya mandiram, Vijayawada.

Objectives :

- The main objective is to teach concepts and skills presented in the real world applications.
- This is math-based, which allows you to develop accurate ideas and assumptions.
- This gives you direction when trying to solve a problem.
- Models are representations that can aid in defining, analysing, and communicating a set of concepts.
- This develops thinking capacity.
- Using models helps to think mathematical concepts easily.

## DAY – 1 - SESSION – 1:

On 20<sup>th</sup> August, 2022, FDP was inaugurated by Sri P.L. Ramesh, Principal I/c Speech. After that, Theme of the FDP was delivered by Smt. M. Lakshmi Prasanna, Head, Dept. of Mathematics. Day 1 Session started by Resource Person Dr. Satyanaryana Sarma, in this session he introduced “Glimpse of Ancient Indian Mathematics” and the invention of Vedic mathematics and brief history of Indian Mathematicians.



Sri P. L. Ramesh, Principal I/c,  
addressing the staff about the FDP

Talk by Dr. P. Satyanaraya Sarma,  
Retd. Teacher, Sisuv Vidya Mandiram,  
Vijayawada



Staff at the FDP



**(24.08.2022) DAY – 2 - SESSION – 2:**



**In this session the Resource person explained Panchatantra Mathematics with playing cards which is an innovative strategy**



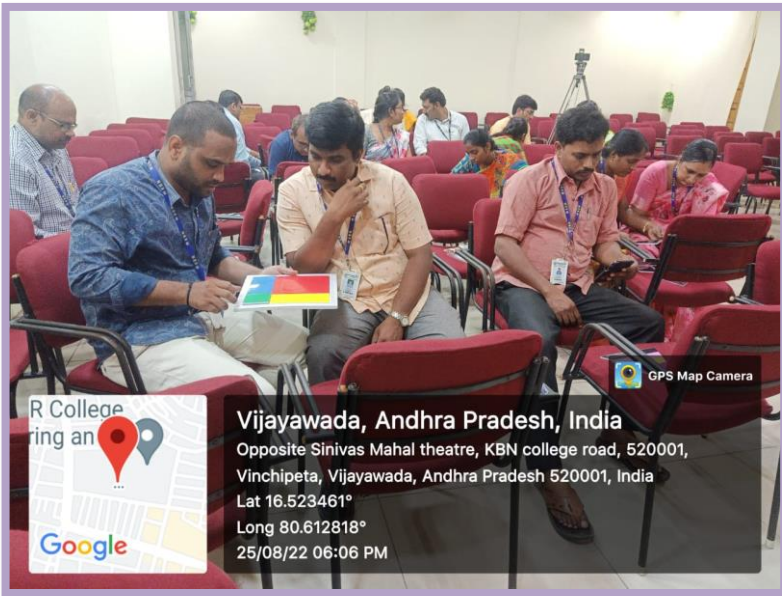
**Secretary & Correspondent Sri T. Srinivasu, observing the staff playing cards session**

**Gift presentation to the Panchatantra Mathematics Competition Winner**



**(25.08.2022) DAY – 3- SESSION – 3:**

**In this session the Resource person explained the mathematical models which is a journey from abstract to concrete and vice versa**



**(26.08.2022) - DAY – 4- SESSION – 4:**



**In this session the Resource person explained how to understand the Bhaskara charya's Lelavati and it's relevance in the present day context.**

**(27.08.2022) - DAY – 5- SESSION – 5:**

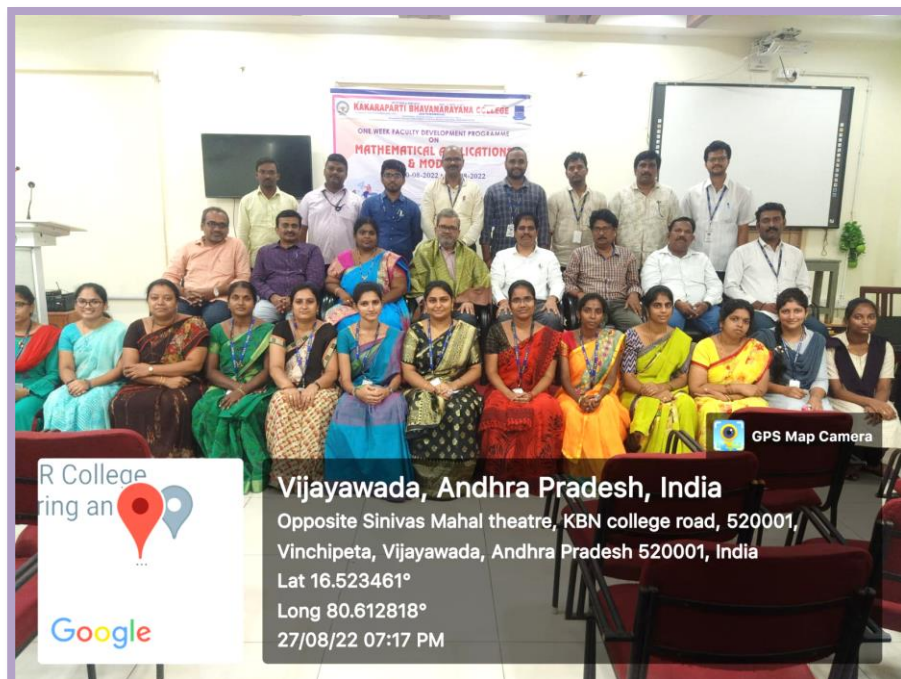
**In this session the Resource person explained how to understand the Mathematical concepts in Aesthetic, Artistic and cultural approaches.**



### Valedictory session:

In this session, I/C principal P.L.Ramesh, Head of the Department M. Lakshmi Prasanna, members of the Department and other faculty members from K B N College in Vijayawada have participated. All the faculty members felicitated the Resource Person, lastly the programme was concluded by vote of thanks given by Ms. P. Kalma begum, Dept of

Mathematics.



## Outcomes:

1. Usage of mathematical ideas to model real world problems
2. Develop and maintain problem solving skills.
3. Panchatantra mathematics, Playing cards is a strategy for better understanding of the Students.
4. Puzzles to enhance Reasoning and Mental Ability.

## Invitation

### K.B.N. COLLEGE (AUTONOMOUS)

Sponsored by S.K.P.V.V. Hindu High Schools' Committee  
Kothapeta, Vijayawada-520 001.

A College with Potential for Excellence (CPE) All India 92nd Rank in NIRF by MHRD (2017)  
Recognized as Band Performer in ARIIA by Ministry of Education, Govt. of India



**INVITATION**



### Department of Mathematics & Statistics

Cordially invites you to

### One-Week Faculty Development Programme on 'MATHEMATICAL APPLICATIONS & MODELS'



20<sup>th</sup> - 27<sup>th</sup> August, 2022

### Resource Person

**Dr. P. Satyanarayana Sarma**

Retd. Lecturer, Montessori Mahila College of Education

### Presided by

**Sri P. L. Ramesh**

Principal I/c, K.B.N. College