

The Department of Mathematics

The National College, Autonomous, Jayanagar, Bangalore 560070

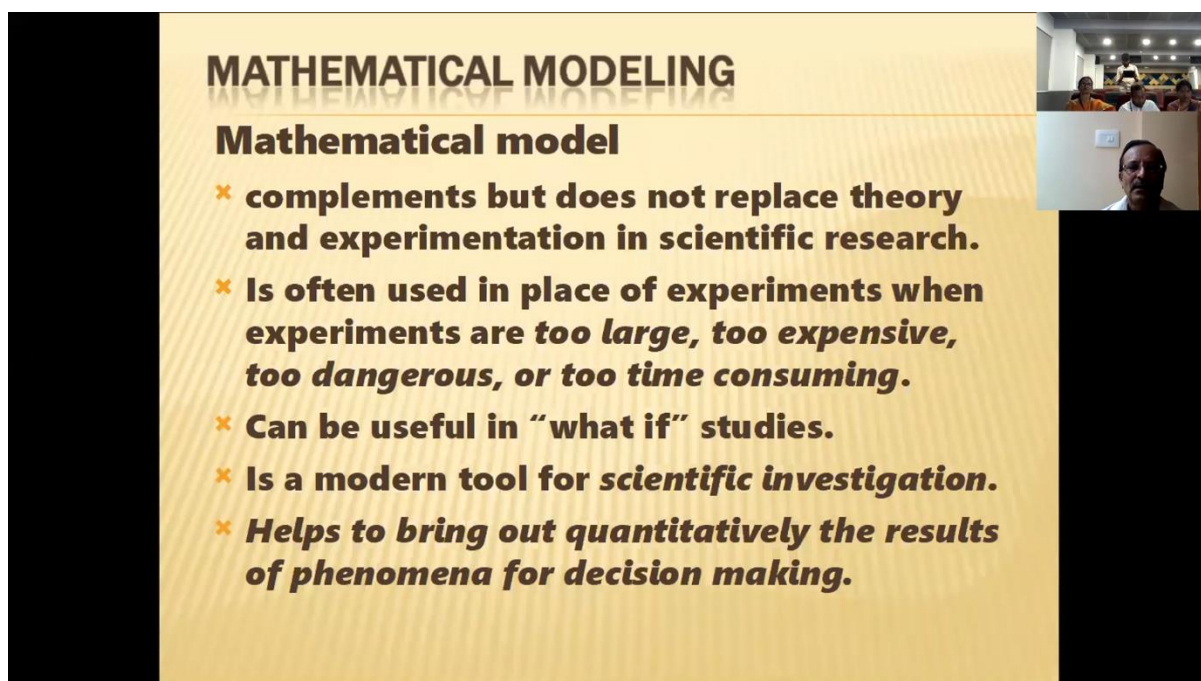
Topic: **WEBINAR ON APPLICATIONS OF MATHEMATICS**

A webinar in Mathematics was held on 8th April 2021 at 10.30AM.

Resource Persons:

<u>Name of the Speaker</u>	<u>Topic</u>
1. Dr. A.M. Nageswara Yogi, Chairman, Institute of Defence Scientists & Technologies, (IDST), Bangalore	MATHEMATICAL MODELLING - Case Studies Related to Defence Problems
2. Dr. S.K. Singh Scientist F, ADE, Bangalore	GAME THEORETIC ANALYSIS FOR NATIONAL SECURITY

More than 100 students and faculty member attended the webinar on Zoom platform.



MATHEMATICAL MODELING

Mathematical model

- ✦ complements but does not replace theory and experimentation in scientific research.
- ✦ Is often used in place of experiments when experiments are *too large, too expensive, too dangerous, or too time consuming.*
- ✦ Can be useful in “what if” studies.
- ✦ Is a modern tool for *scientific investigation.*
- ✦ *Helps to bring out quantitatively the results of phenomena for decision making.*

The slide also features a small video inset in the top right corner showing a group of people in a meeting room, and a larger inset below it showing a close-up of a man speaking.

(Session by Dr A M Nageswara Yogi)




Game Theory



- A theoretical framework for conceptualizing political/ economic/social situation among **competing players**
- Termed as '**Science of Strategy**'
- May be used for determining outcome in conflicting situation with two or more players i.e. strategic decision makers
- **Optimal decision** making of competing players in strategic setting
- Purpose is to find your **best possible strategy**, given the **strategy/ steps** taken by your competitor/ adversary.

(Session by Dr S K Singh)

Invitation:



The National Education Society of Karnataka @
THE NATIONAL COLLEGE
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Jayanagar, Bangalore – 560 070
Accredited 'A' Grade by NAAC

Department of Mathematics
organizes


WEBINAR ON APPLICATIONS OF MATHEMATICS

Date: Thursday, 8th April 2021

10.30 to 11.30 am

Speaker:
Dr. A.M. Nageswara Yogi
Chairman, Institute of Defence Scientists
& Technologies, (IDST), Bangalore


Topic:
MATHEMATICAL MODELLING
- Case Studies Related to Defence Problems



11.30 to 12.30 pm

Speaker:
Dr. S.K. Singh
Scientist F, ADE, Bangalore

Topic:
GAME THEORETIC ANALYSIS
FOR NATIONAL SECURITY



[Press here to join webinar](#)

Prof. H.G. Amara Prabhu
H.O.D. of Mathematics

Dr. B.R. Parineetha
Principal

Prof. B.V. Sreedhara Swamy
Secretary, College Council