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Recent Trends of Mathematics in Education

Dr. A. K. Yadav[1], Dr. Sushil Kumar[2], Dr. Rashmi Chaudhary[3]

[1]Department Mathematics Govt. P.G. College, Datia, Madhya Pradesh, India
[2]Department Mathematics C.C.S.P.G. College, Heonra Etawah, Uttar Pradesh, India
[3]Department of Geography, Government K.R.G P.G. College Gwalior, Madhya Pradesh, India

ABSTRACT
Mathematical activity has changed in every field. We discuss some of these trends and how they could influence the future of mathematical education. The aim of this paper is to study the recent trends in the present day mathematics and the role of mathematics in other disciplines.

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INTRODUCTION

It is my honest opinion that Dr. K.C. Sharma has been inspiring popularizing and researching in applicable mathematics. In this title one may feeling that there is a umpteen trend of mathematics today. We are attempting every event in the universe and in human life through mathematical modeling. It is real fact that mathematician is really missing in it today. I feel that mathematics is the motivation and learning of science, social science and Engineering. Mathematics is the science and art of life and world activities. Mathematical activity has changes a lot of last 60 years. Almost all human activity make and more use of mathematics. Mathematics activity has changes a lot of size in the field of research, applications, education, medical science etc.

The contents in the talk are divided as following.

1. Potential agencies for employment.
2. Nature of education.
3. Analysis of the profile.
4. Remedies for better opportunities.

Potential Agencies

Trend of mathematics can be mainly classified employment opportunities as following.

1. Teaching department.
2. Research institutions.
3. Government and autonomous organization.
4. Private sector.
5. Computer industries.

Each of institute needs persons good in mathematics and he know applicable mathematics is such field in which they are attached. Mathematics has vide potential and good practiced at these work places. Present students in mathematics go to teaching institution.

NBHI identified ten thrust areas for learning in mathematics.

A. Computational aspect algebra and geometry.
B. Stochastic process modeling.
C. Numerical scheme of solution of differential equation.
D. Deterministic control theory.
E. Dynamical system.
F. Stochastic modeling process.
G. Combinatorial optimization.
H. Game theory.
I. Wavelet theory.
J. Spectral and inverse spectral theory.

The basic issues that arises in who is to practices. We have to bring out state of the art in mathematics.

Nature of education

Mathematics for engineering students

1. Engineering students mathematician do not convey mathematics in their language.
2. Mathematics teacher fails to inspire and motivating students in the subjects.
3. Fine aspects of mathematics distaste the students.

4. Many P.G. centers of engineering faculty has taken over the teaching of mathematics.

Mathematics for commerce and management

There is a great demand to dilute the subject because students are averse to learn mathematics.

Mathematics for humanity and biosciences

In these branches students have little touch with mathematics. Elementary statistics form a nucleas for analysis of data.

Mathematics for physical science

A. Physics syllabus has a good component of mathematics.
B. Chemical sciences of graduate level is sufficient background for their purposes.
C. Today students of physics believe high speed computing should be adopted in place of mathematical method.

Mathematics for mathematical sciences

1. Computer science.
A. Student Attend to software and hardware learning.
B. Minimum syllabus does not inspire them.

2. Statistics
A. Industries used good package for analysis.
B. Courses are strong in mathematical analysis.
C. Large of students decrease content in mathematics.

3. mathematics

Primary and school level

A. There is a large number of dropout due to mathematics.
B. Failure rate is very high.
C. The presentation and understanding of mathematics is not good in children.
D. Why it is tought?
E. The cause of literacy cannot achieved as mathematics is not applicable to students.

High secondary level

A. The good brain intends to drift to professional courses.
B. Teaching is mark oriented.
C. Oriented tutorial is handicap to analytical teaching.
D. Teaching too adept this teaching and are busy in tutioring.

College and university level

A. Students are fall out of professional branch.
B. Students are uninspired as employment opportunities in their subject.
C. College teacher shrink research of real system projects.
D. Tuition is high practice.
E. Teachers are shifting interest to computing where professional scope is good.

Analysis of the above profile

Every organization has a scope to seek modeling advice to further it progress. It is actual fact that mathematicians do not understand our languor in the field of employing agencies. They are not able to develop mathematical model for real systems. There is a lot of gap in understanding each other. Mathematics community feels that mathematics shall remain what it is society has to accept this fact.

Popularization of mathematics needs to be given high priority of scientific progress of the society.

Remedies for better opportunities

All the level of mathematical equations is seen as following;

1. Primary education in mathematics should be simple language and without abstract notations.
2. Middle level education should include and cover syllabus on unitary operation including orals on than.
3. In secondary level children are to be provided guidance and psychological test of their subject.
4. In higher secondary level in all branches for studies in mathematics with lab work is to be a paper.
5. In graduate level mathematical model making as a practical work in each area to be included.
6. In engineering mathematics should be model approach.
7. P.G. level teaching should have an advanced level computer programming course.

Seminar for students is a good factor for understanding and development. Project work is equivalent to a paper is desirable. Class room teaching is to be decreased. Finally we say that decreasing of faith one another is a concern and is to be re-established.

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