

Why Mathematics Courses Are Demanding In Today's Education

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Various Issues widening the Campus, including the Career Opportunities:

The increasing importance of mathematics courses in the present day's situation is an admitted fact. There are many issues, which have prepared for the strong ground for such courses. Students are bending towards such courses by keeping their capabilities in mind.

Actually, they are now more inspired by the job oriented principles. Such principles motivate them to opt for mathematics courses. Besides, the tools for learning are now more matured with advanced capacity.

Differences can be easily determined regarding method of teaching. If you arrange for a generation wise interview of people related to Mathematics, the cause would easily come out of the various responses made by the participants. You can also plunge into the individual attitude regarding such courses, although experience matters much. How you are passionate about learning Mathematics is also a turning point.

Moreover, today's procedure emphasizes much more upon application than only going through theories. If you get deep-delved in the various historical phases, you can notice the step-by-step development of teaching and learning Mathematics.

Next, you yourself can identify the drawback and the way to bridge the gap as well. Researches are being conducted in respect of looking for the concepts, approaches, the study of practice, and pedagogy of mathematics on national and international basis.

In the job sector, mathematics is growing much popular for providing the soft skills. With its technical, diligent, versatile, and innovative attitude, the subject provides the area of a balanced communication among the co-workers in an organization. Besides, various internship programs are arranged for the under-graduate students to enhance their experiences.

Literature to widen the Opportunity:

The time being stooping is also impressed by conferences and literature. You know, wording is one of the factors to ease the method of learning mathematics. Construction of passages is an important factor that makes the students comprehends the process. In fact,

communication contributes a lot in developing the teaching method.

It is not that usage of heavy words and phrases can make an ideal paragraph. What you need is to convey your message to your readers with communicative but informative tone. You should arrange for such words that your readers seem to visualize you- your concept.

The more you switch on to easier plot construction, the more you would have your readers reach your content with less riddles. Moreover, you have to analyze the method with proper applications.

Problems in Education System:

Traditionally, the teaching system emphasizes on how to memorize the basic facts. For instance, students are taught the multiplication table and arithmetic algorithms through the step-by-step of studying examples. The traditional approach also focuses on much practice.

By using a single standard method, one correct answer is sought. There are [basic Problems in Education System in India](#) same like the tracking of Mathematics after the elementary grades. Earlier, elementary mathematics used to reign in countries like Ancient Greece, Rome, the Vedic Society, and Egypt.

The Importance & Necessity of the demanding Mathematics Courses like M.Sc. Math:

• Objectives and Methods used in various Countries:

Various objectives have been aimed at in the different parts of the world at different times. For instance, somewhere pupils have been taught basic numeracy skills, practical mathematics, or solid geometry. On the other hand, some learners have been motivated with the conceptual understanding at the early stage of learning.

Somewhere, Euclidian Geometry has been focused as the ideal instance for the axiomatic system and the deductive reasoning as well. In some cases, some problem solving strategies have been adopted to way-out the non-routine problems. And hence, the methodology is much motivated by the objectives.

Methods have been made more advanced through writing, drawing, games, and instruction. Earlier, to test the students, oral examinations were conducted. But, you know, mathematics is not something to be tested orally while verbal communication matters much in teaching the subject.

On the contrary, according to the alternate approaches, students are allowed to invent their own procedure through direct presentation of facts and methods. Hence, alternate approaches pave the way for the grading system to get demonstrated by the conceptual understanding. Countries like USA are expected to meet more mastering algebra for all the students. This process focuses less on mere tracking of some students.

• **Recreational Mathematics:**

Moreover, recreational mathematics is encouraged to inspire learners to use mathematics for fun. Thus, the demand is increasing a lot.

The task of tracking is performed with different student who cover different levels of materials. Problems arise when the subject is taught without keeping in mind the issues related to society, politics, or globalization. Hence, you can hardly expect here any practical application.

• **Alternate Approaches heal the situation:**

In contrast to the traditional method used earlier, Problems in Education System have been eased a lot by the curriculum, lessons, and practical applications through the alternate approaches. Today's curriculum focuses on conceptual understanding. Lessons contain much more materials, which explore the support in favour of the practical applications.

Practical applications differ much in respect of various issues related to gender, environment, racial diversity, and social justice. You have to do something beyond mere filling out the worksheets. Remember nothing is beyond life. And you must have to keep the equilibrium with the surrounding and the global atmosphere.

• **.Categories in the Career Opportunities:**

There are several categories, which nurture the Mathematics courses, as mentioned below:

- 1) Actuarial Science
- 2) Information Technology and Computing
- 3) Data Science
- 4) Business Management & Consultation
- 5) Teaching at the elementary or secondary school level

- 6) Study Mathematics/ Statistics in Graduation, for academic purpose
- 7) To pursue graduation in mathematics or statistics for jobs in the governmental or non-governmental sector
- 8) To go for graduation in applied mathematics for business management
- 9) To pursue graduation and post graduation in mathematics and statistics for inter-disciplinary field

Besides, for students in related fields like finance, economics, physics, chemistry, biology, and public health, to learn the basic about mathematics is desirable. For computer science, there are also increasing opportunities for the mathematics courses. If you go for engineering, you require a minimum of knowledge related to the major contribution of mathematics in the area.

You need an expertise in mathematics if you want to grow up as a professional engineer. There is the equal necessity if one opts for scientific computing. Besides, courses of Mathematics offer an extensive exposure to computing. Bio-technology companies, to continue their research programs, seek for candidates having strong academic background in biology and mathematics.

The Indian Institute of Technology, Indian Institute of Science, and Department of Science and Technology etc. provide teaching opportunities for mathematics students. They also enjoy job opportunities in the government organizations like ISRO (The Indian Space Research Organization), DRDO (Defence Research and Development Organization), and NAL (National Aeronautics). Besides, there are the insurance & banking sectors for the mathematics students.

• **Scholarship:**

Funding is an important factor for continuing higher education. There are many organizations offering scholarship to students, like [NBHM Scholarship](#) for M.Sc and CSIR research fellowship. There are also Kishore Vaigyanik Pratsohan Yojana and other scholarship programs of the related institutes to encourage students to learn Mathematics.

A keyword:

If you aim at developing your career by pursuing mathematics courses, you should have good skills for solving mathematical problems, logical reasoning, and to-the-point thinking.

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