

IS(T)

FTS: 1330626

Email

Parliament Unit

negative perceptions regarding mathematics

From : [REDACTED]

Tue, Nov 21, 2023 05:24 PM

Subject : negative perceptions regarding mathematics

To : parliamentunit edu [REDACTED]

PROVISIONALLY ADMITTED QUESTION FOR THE RAJYA SABHA

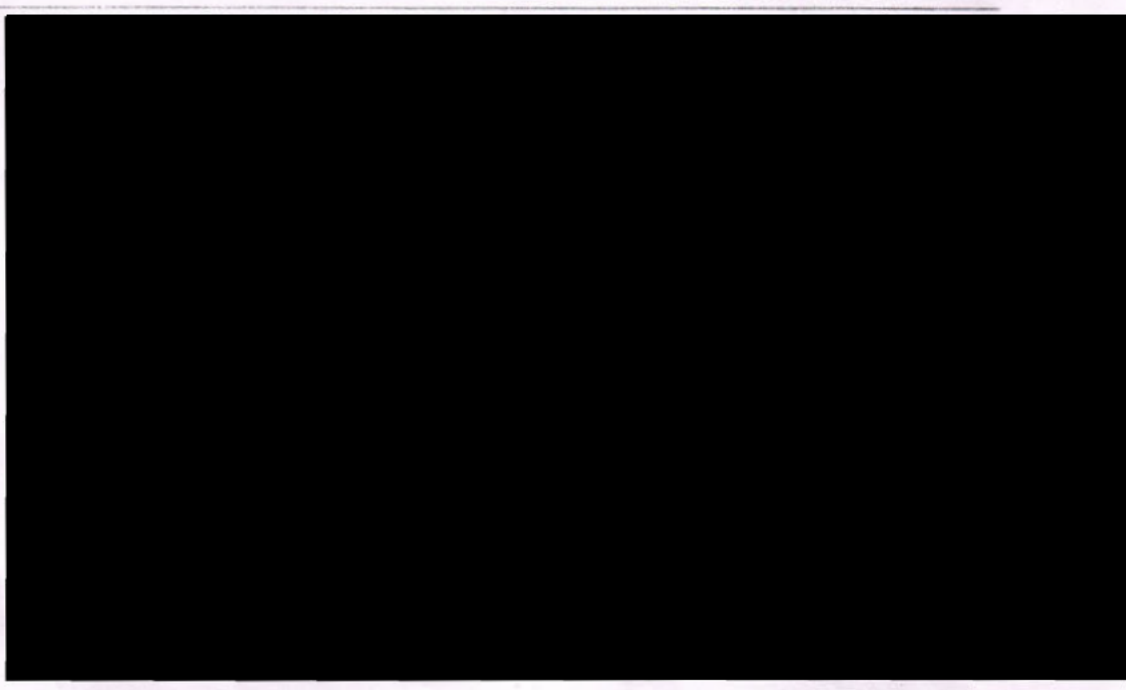
Starred /Unstarred Diary No.-- U1110

The Question Will be put down for -- 06/12/2023

Answer on the Ministry Department -- Education(EDU)

negative perceptions regarding mathematics

Will the Minister of Education be pleased to state: (a) Whether the government has taken note of the fact that the negative perceptions regarding mathematics are often carried into adulthood with students developing fear and prejudice towards science, technology, engineering, and mathematics (STEM) disciplines? (b) If so, the details of the corrective steps that are proposed to be taken by the government keeping in mind that STEM education can prepare students for careers in fields such as computer science, engineering, biotechnology, and other emerging technologies?





IIT Jammu: Provisionally Admitted Question for the Rajya Sabha Diary No. - U1110 for 06.12.2023 regarding negative perceptions regarding mathematics - regarding.

2 messages

Dear Sir,

Please find the reply to Rajya Sabha Diary No. - U1110 for 06.12.2023 regarding negative perceptions regarding mathematics as below:

(a.) Whether the government has taken note of the fact that the negative perceptions regarding mathematics are often carried into adulthood with students developing fear and prejudice towards science, technology, engineering, and mathematics (STEM) disciplines?

Reply: As far as fear of mathematics, turning of students away from STEM is a reality. This can only be handled by providing alternatives of skipping higher mathematics and only doing basic mathematics and go deeper in Biology and Chemistry instead. Some boards provide for such alternatives. Since it is in the domain of School Boards, IITs can do very little.

(b.) If so, the details of the corrective steps that are proposed to be taken by the government, keeping in mind that STEM education can prepare students for careers in fields such as computer science, engineering, biotechnology, and other emerging technologies?

Reply: IITs can act as catalyst groups by interacting with school teachers and students so that they can help students to shed the fear. In this regard IIT Jammu has conducted a STEM workshop and trainings (Details below) for school teachers and students so that when they go for higher education with limited mathematics background. Teachers at lower levels have been shown simple mechanical and electronic devices, which they themselves could make. This builds confidence in them so that, later, they will be able to make their students make these and promote their interests in Science and Technology. Many teachers appreciated this aspect and they whole-heartedly expressed it.

1. EID-100148 - Design thinking in STEM (13 Apr 2023)
2. EID-100162 - SAINIK SCHOOL TEACHERS TRAINING (02 Jun 2023 - 06 Jun 2023)
3. EID-100164 - Teachers training workshop for ATL (14 Jun 2023 - 18 Jun 2023).