



Inaugurated by Mrs. Sudha Murty, renowned author and philanthropist, the program aims to enhance digital literacy among rural students, with a special focus on empowering girls in Kasturba Gandhi Balika Vidyalayas (KGBV). The program is set to impact approximately 1,200 girls across 10 residential schools in Assam, running from August 2024 to March 2027.

The EmpowerED program seeks to tackle the challenges of limited access to technology, digital literacy, and gender disparity in STEM education through virtual teaching, enriched with culturally relevant content in vernacular languages.

STEM education, which stands for **Science, Technology, Engineering, and Mathematics**, focuses on integrating these disciplines into a cohesive learning paradigm. The goal of STEM education is to equip students with critical thinking, problem-solving, and technical skills that are increasingly essential in a rapidly evolving global workforce.

Key Aspects of STEM Education

1. Interdisciplinary Approach



- STEM education emphasizes the connection between subjects. Instead of teaching each discipline in isolation, it encourages students to apply concepts across science, technology, engineering, and mathematics in solving real-world problems.

2. **Hands-On Learning**

- Practical applications, experiments, and projects are at the heart of STEM education. This hands-on approach helps students understand theoretical concepts more clearly and enhances their engagement with the material.

3. **Problem-Solving Focus**

- STEM promotes critical thinking and creativity. Students learn to approach complex problems logically, breaking them into manageable parts and applying scientific and mathematical reasoning to find solutions.

4. **Technology Integration**

- STEM education encourages the use of modern technology tools, such as coding, robotics, 3D printing, and computer simulations, which helps students stay updated with current technological advancements.



5. Collaboration and Teamwork

- In STEM fields, collaboration is crucial. Group projects in STEM education foster teamwork, communication skills, and diverse thinking, mimicking real-world engineering and technology environments.

6. Encouraging Innovation

- STEM education nurtures an innovative mindset, inspiring students to explore new ideas, invent, and create. This is particularly important for driving advancements in fields like renewable energy, healthcare, and artificial intelligence.