DigiEduHack Solution
Colombo - Future of Education in Sri Lanka- Global Perspective
Challenge: Colombo - Future of Education in Sri Lanka- Global Perspective Challenge 2021

Educating Sri Lankan students about 3D printing

Choose an age group to teach 3D printing to them using a syllabus

Our strategy is to first educate people about 3D printing by hosting seminars or workshops across the country. Then, as a basket subject, incorporate 3D printing for middle school students in Sri Lanka. Finally, a final test is used to assess knowledge.

Team: The Folks

Team members

H. Ashen Thissera, Rasintha Fernando, R.A Nirasha Suchithra

Members roles and background

H. Ashen Thissera- Leader

Rasintha Fernando- Member

R.A. Nirasha Suchithra- Member

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Solution Details

Solution description

Our final solution is to include this into Sri Lankan school curricula. After that, they are evaluated by assigning students to a final exam. In terms of modern technologies, the entire country is experiencing a setback. As a result, we decided to include this new technology into the educational system. When 3D printing technology is implemented in the manufacturing industry in the country, the success may be judged after a long period of time. Our effort will benefit the challenge owner because he is aiming to promote awareness about technology 4.0, namely 3D printing.

Solution context

The biggest issue we are dealing with is a shortage of teachers willing to teach 3D printing to Sri Lankan students. In addition, there are other issues in Sri Lanka, such as a lack of resources and a lack of computer literacy of the students in rural areas. According to the proposed solutions, we believe that suitable 3D printing instruction should be provided to teachers. We decided to send the appropriate message and recruit some volunteers to help the country due to a lack of resources. We are well aware that we were unable to find volunteers to help the entire country at first, but we believe that as a long-term project, we will be able to find solutions.

Solution target group

Middle school students in Sri Lanka are our primary target group. According to a survey conducted by the Census and Statistics Department. The graph clearly shows that middle school pupils have the highest level of computer literacy among Sri Lankan students. As a result, they will be the most affected group. Finally, they can benefit from learning 3D printing technology.

Solution impact

The impact can be assessed using both long-term and short-term results. For starters and if they good results in exams for 3D printing, they will witness quick results. The most important result, however, will be the long-term impact if our efforts are successful. Manufacturing and quality control in Sri Lanka can be enhanced, resulting in high-quality completed products. Then, if a strategy is followed and the expected results are accomplished, we can declare our project a success.

Solution tweet text

N/A

Solution innovativeness

In our country, there is currently a significant disparity in technology 4.0. Thought s ome organizations, such as Fab Lanka, are promoting and teaching about technology 4.0. However, when looking at the big picture, most people don't understand what technology 4.0 is. Finally, our initiative can be characterized as a solid proposal for spreading 3D printing knowledge throughout the country.

Solution transferability

This project could be implemented in other countries comparable to ours.

Solution sustainability

Our project has the potential to be sustainable. This concept will be present since we intend to incorporate it into our educational system. Even when modifications arrive, we may update the syllabus to reflect the changes. In conclusion, this project will be sustainable in that way.

Solution team work

My team assisted me from the beginning to the completion of the project. I believe we formed a good team and will continue to collaborate in the future.