AlgoHack

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AlgoHack aims to teach Computer Science and Programing to young people, initiated by Shilpa Sayura Foundation, supported by GOOGLE RISE and Computer Society of Sri Lanka..

Project Objectives :
1. Introduce CS as an extracurricular activity to youth.
2. Develop thinking and problem solving skills.
3. Improve Science, Technology, English and Math Skills
4. Learn Advanced Programming to enter CS field.
5. Develop IoT skills for learning Robitics and AI

Free Learning Resources
Algohack # 0 - 10 booklets
Algohack # 100 Problem Book
Ganidu Coding Tool
Algohack Python and C Tutorials
CS-First
Beaver Problems

Participants
Grade 5 or above

Method
Program implemented by a ICT teacher, Senior ICT or University Student

The program implemented as an extracurricular activity. 1-2 hours per week..

Each student joins a small group of 3-5 members. 2 - 5 groups shall make one community. Each group shall have a leader.

Students with the help of teacher and group leader completes each algoHACK booklet and solve problems in problem book at their own phase.

They can start from booklet #0 and move forward at self phase to complete advance booklets. Completing each booklet gives 100 points and recognition sticker.

Completion of Book 10 provides a CS & Programming badge and certificate from AlgoHACK project supported by Google and CSSL

Learning Resources
Algohack: https://goo.gl/mH5vPS

Ganidu : http://shilpasayura.com/dev/ganidu/
Scratch : http://scratch.mit.edu
Microbit : http://microbit.org
Arduino : https://www.arduino.cc/
Raspberry Pi : https://www.raspberrypi.org
Unity : https://unity3d.com/
Web https://www.w3schools.com
Shilpa64 http://shilpa64.lk
Instructables : https://www.instructables.com/
Coding http://code.org
Graphics http://gimp.org
Open Shot http://openshot.org
Design : http://inkscape.org
Collaboration https://drive.google.com
Local languages :https://www.icta.lk/local-languages-initiative/7/

AlgoHack Teacher Application: https://goo.gl/QAd7q9

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