香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Remote Laboratory on Specific Heat Capacity

(SCIS1022A)

Introduction	This workshop aims at teaching students to build a remote experiment on their own. In this workshop, students will build a specific heat capacity experiment by using Arduino and Raspberry Pi to control the equipment and collect the experimental data. The experiment will then be performed via a webpage. Students could analyse the data generated, explain the scientific theory behind the specify heat capacity experiment, and experience and apply the technology of remote controlling hardware in the course.
Programme Type / Level	Introductory Workshop in Physics (Level 1) (Token-required)
Instructor(s)	WONG Wang Cheung, YUNG Fai Ho Tony (Labwork Technology Limited)
Pre-requisites	No special prerequisites are needed
Target Participants	➢ S1 – S3 HKAGE student members ➢ Class size: 35 *First-come, first-served
Medium of Instruction	English with English handouts
Certificate	**E-Certificate** will be awarded to participants who have: ❖ Attended **at least ALL sessions; AND** ❖ Completed all the assignments with satisfactory performance.
Intended Learning Outcomes	Upon completion of the programme, participants should be able to: 1. explain the scientific theory of specific heat capacity with experimental data; 2. explain the technology of remote controlling over real experimental equipment; 3. use Arduino and Raspberry Pi to control the experimental equipment for performing the specific heat capacity experiment.
Application Deadline	**11 May 2020, 12:00 n.n.** Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule

Session	Date	Time	Venue (HKAGE)
1	4 Aug	9:30 a.m. – 12:30 p.m.	~~Room 403~~ Online Lecture
2	4 Aug	2:00 p.m. – 5:00 p.m.	

Enquiries: For enquiries, please contact us at 3940 0101 after language selection, press "1".