



Big Challenge of Gravity, Electricity and Motor

(E1PHY003W)

| | |
|-----------------------------------|--|
| Introduction | Do you know how a machine work? Do you understand the physics concepts involving there? The workshop will use Gigo bricks as teaching kits, to let the students know relevant physics concepts, and apply in making a structural device driven by various energy sources. For example, closed circuit, power car or devices driven by potential energy. During the process, students not only can learn the concept of gravitational energy electricity and motor, but also develop their critical thinking and problem-solving skills as well as learn to apply the scientific knowledge gained from this workshop. |
| Programme Type / Level | Physics Workshop (Level I) (Token-required) |
| Instructor(s) | Creative Education Unit, The Hong Kong Federation of Youth Groups |
| Pre-requisite | No special prerequisites are needed |
| Target Participants | <ul style="list-style-type: none">➤ P4 – P6 HKAGE student members in 2021/22 school year only➤ Class size: 30* <i>First-come-first-served.</i> |
| Medium of Instruction | Cantonese with Chinese handouts |
| Certificate | E-Certificate will be awarded to participants who have: <ul style="list-style-type: none">❖ Attended ALL sessions; AND❖ Completed all the assignments with satisfactory performance |
| Intended Learning Outcomes | Upon completion of the programme, participants should be able to: <ol style="list-style-type: none">1. Grasp the basic concepts of energy;2. Describe factors that can influence the gravitational potential energy;3. Understand the principle of closed circuit;4. Understand the relationship between electricity and motor;5. Utilize the application of chain transmission. |
| Application Deadline | 6 Dec 2021, 12:00 n.n |

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

Schedule

| Session | Date | Time | Venue (HKAGE) |
|---------|--------|-----------------------|---------------|
| 1 | 22 Dec | 1:30 p.m. – 5:30 p.m. | Room 105 |

Enquiries

For enquiries, please contact us on 3940 0101 or via email programme@hkage.org.hk.