

**Physics Enhancement Programme for Gifted Students (2021-2022)**

**Hong Kong University of Science and Technology (HKUST)**

Phase II (11 Sessions) (E3IPO002C)

Session	Date	Date2	Time	Contents	Instructor	Venue
1 (Cancelled)	8-Jan	Sat	<del>1000-1300</del>	<del>Experiment 1</del>	<del>Dr Choy Mr Shing</del>	<del>Rm 6137 (Lift 22)</del>
2	8-Jan	Sat	1400-1700	Selection Test 1 (Mechanics)	Dr Choy	Rm 2463 (Lift 25/26) Zoom meeting
3 (Cancelled)	15-Jan	Sat	<del>1000-1300</del>	<del>Experiment 2</del>	<del>Dr Choy Mr Shing</del>	<del>Rm 6137 (Lift 22)</del>
4	15-Jan	Sat	1400-1700	Selection Test 2 (Wave and Thermo)	Dr Choy	Rm 2463 (Lift 25/26) Zoom meeting
5 (Cancelled)	22-Jan	Sat	<del>1000-1300</del>	<del>Experiment 3</del>	<del>Dr Choy Mr Shing</del>	<del>Rm 6137 (Lift 22)</del>
6	22-Jan	Sat	1400-1700	Selection Test 3 (EM and optics)	Dr Choy	Rm 2463 (Lift 25/26) Zoom meeting
7 (Cancelled)	29-Jan	Sat	<del>1000-1300</del>	<del>Experiment 4</del>	<del>Dr Choy Mr Shing</del>	<del>Rm 6137 (Lift 22)</del>
8	29-Jan	Sat	1400-1700	Selection Test 4 (special relativity, modern physics and everything)	Dr Choy	Rm 2463 (Lift 25/26) Zoom meeting
9 (Updated)	7-Feb	Mon	1000-1300	<del>Pan Pearl Paper 1</del> Selection Test 5 (All topics covered in Phase I)	Dr Choy	Zoom meeting
10 (Updated)	7-Feb	Mon	1400-1700	<del>Pan Pearl Paper 2</del> Selection Test 6 (All topics covered in Phase I)	Dr Choy	Zoom meeting
11	19-Feb	Sat	1400-1600	Paper checking	Dr Choy	Zoom meeting

Remark:

1. The Pan Pearl River Delta and Chinese Elites Schools Physics Olympiad (第十八届泛珠三角物理奥林匹克暨中华名校邀请赛) is a physics competition organised by the Physics Department of HKUST for 18 years. ALL phase 2 students can participate in this competition in April. The syllabus and past papers can be found in the webpage: <http://panpearl.phys.ust.hk/>

2. Because of the COVID-19, all on-campus experimental training are cancelled. They are replaced by a home experiment. Students will choose one of 4 given topics and use household materials, such as rubber band, strings, speakers, etc. and also your cell phone to conduct the experiment. Students are required to write a proposal to describe their experiment and a short report to summarize their findings. Instruction of the home project will be uploaded in canvas.

**PEP Phase II training rules**

1. Phase II students who **submit the proposal and report of the home project and** have **attend 4 out of 7 sessions** with satisfactory performance will receive a certificate from the HKAGE. For attendance and leave policy, please check [https://www.hkage.org.hk/files/students/important-information/Policies\\_and\\_Forms/20190809%20Attendance%20and%20Leave%20Policy\\_E.pdf](https://www.hkage.org.hk/files/students/important-information/Policies_and_Forms/20190809%20Attendance%20and%20Leave%20Policy_E.pdf)
  
2. Phase II students must attend all the selection tests. Zero mark will be given for those whose are absent from selection test(s).
  
3. The assessment of phase II consists of
  - Selection Test 1 ----- 50 points
  - Selection Test 2 ----- 50 points
  - Selection Test 3 ----- 50 points
  - Selection Test 4 ----- 50 points
  - Selection Test 5 ----- 50 points
  - Selection Test 6 ----- 50 points
  
4. Promotion to Phase 3: Top 8 students based on the total score of all tests.

(For the latest information, please check at [https://canvas.ust.hk/.](https://canvas.ust.hk/))