

Physics Enhancement Programme for Gifted Students (2016-2017)

Hong Kong University of Science and Technology (HKUST) and Hong Kong Baptist University (HKBU)

Phase III (38 Sessions)

| Session | Date | Time | Contents | Venue |
|---------|-------------|-------------|---|---------------------|
| 1 | 12 Apr 2017 | 10:00-13:00 | Laboratory Session 1 H1: Specific heat and latent heat of vaporization | Room 6140 HKUST |
| 2 | | 14:00-17:00 | Laboratory Session 2 O2: Applications of interferometry | Room 6315* HKUST |
| 3 | 13 Apr 2017 | 10:00-13:00 | Laboratory Session 3 E1: Thevenin circuits and AC circuits | Room 6135 HKUST |
| 4 | | 14:00-17:00 | Laboratory Session 4 E2: Diodes and transistors | Room 6135 HKUST |
| 5 | | 18:00-21:00 | Tutorial 1 | Room 4475 HKUST |
| 6 | 14 Apr 2017 | 10:00-13:00 | Laboratory Session 5 O5: Semiconductor laser diodes (Part I) | Room 6135 HKUST |
| 7 | | 14:00-17:00 | Laboratory Session 6 O5: Semiconductor laser diodes (Part II) | Room 6135 HKUST |
| 8 | | 18:00-21:00 | Tutorial 2 | Room 4475 HKUST |
| 9 | 15 Apr 2017 | 10:00-13:00 | Tutorial 3 | Room 4475 HKUST |
| 10 | | 14:00-17:00 | Tutorial 4 | Room 4475 HKUST |
| 11 | 17 Apr 2017 | 10:00-13:00 | Tutorial 5 | Room 4475 HKUST |
| 12 | | 14:00-17:00 | Tutorial 6 | Room 4475 HKUST |
| 13 | | 18:00-21:00 | Tutorial 7 Overview of the APhO Experimental Papers | Room 4475 HKUST |
| 14 | 18 Apr 2017 | 10:00-13:00 | Laboratory Session 7 E5: Frequency analysis of electronic signals | Room 6135 HKUST |
| 15 | | 14:00-17:00 | Laboratory Session 8 MP3: Electrical conduction in solids | Room 6315* HKUST |
| 16 | | 18:00-21:00 | Tutorial 8 | Room 4475 HKUST |

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|----|-------------|-------------|---|---------------------|
| 17 | 19 Apr 2017 | 10:00-13:00 | Laboratory Session 9 APhO experiment (Part I) | Room 6315* HKUST |
| 18 | | 14:00-17:00 | Laboratory Session 10 APhO experiment (Part II) | Room 6315* HKUST |
| 19 | 20 Apr 2017 | 10:00-13:00 | Laboratory Session 11 MP4: Photoelectric effect | Room 6315* HKUST |
| 20 | | 14:00-17:00 | Tutorial 9 | Room 4475 HKUST |
| 21 | | 18:00-21:00 | Tutorial 10 | Room 4475 HKUST |
| 22 | 21 Apr 2017 | 10:00-13:00 | Tutorial 11 | Room 4472 HKUST |
| 23 | | 14:00-17:00 | Laboratory Session 12 MP7: The Balmer series of Hydrogen | Room 6315* HKUST |
| 24 | | 18:00-21:00 | Tutorial 12 | Room 4472 HKUST |
| 25 | 22 Apr 2017 | 10:00-13:00 | Laboratory Session 13 APhO experiment (Part III) | Room 6315* HKUST |
| 26 | | 14:00-17:00 | Laboratory Session 14 APhO experiment (Part IV) | Room 6315* HKUST |
| 27 | 24 Apr 2017 | 14:00-17:00 | Tutorial 13 | Room 4472 HKUST |
| 28 | | 18:00-21:00 | Tutorial 14 | Room 4472 HKUST |
| 29 | 25 Apr 2017 | 14:00-17:00 | Tutorial 15 | Room 4475 HKUST |
| 30 | | 18:00-21:00 | Tutorial 16 | Room 4475 HKUST |
| 31 | 26 Apr 2017 | 14:00-17:00 | Laboratory Session 15 O6: Microwave reflection, scattering and diffraction | Room 6135 HKUST |
| 32 | | 18:00-21:00 | Tutorial 17 | Room 4475 HKUST |
| 33 | 27 Apr 2017 | 14:00-17:00 | Tutorial 18 | Room 4475 HKUST |
| 34 | | 18:00-21:00 | Tutorial 19 | Room 4475 HKUST |

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| 35 | TBC | TBC | IPhO 2017 Selection Test 1 | TBC |
| 36 | TBC | TBC | IPhO 2017 Selection Test 2 | TBC |
| 37 | TBC | TBC | IPhO 2017 Selection Test 3 | TBC |
| 38 | TBC | TBC | IPhO 2017 Selection Test 4 | TBC |

Last Update: 9 March 2017

PEP Phase III training rules

1. Phase III student who has attended 27 out of 38 sessions will have a completion for this phase. No certificate from HKAGE will be issued in this phase. All students in Phase 3 are expected to join the Hong Kong team to compete in the 18th Asian Physics Olympiad. They are expected to be present in all training sessions. Students who need to be absent should notify the instructor ahead of time. For attendance and leave policy, please check http://www.hkage.org.hk/files/students/important-information/Policies_and_Forms/20151001_Attendance%20and%20Leave%20Policy_E.pdf
2. For the latest information, please check at <http://hkpho.phys.ust.hk>.