



Department of Physics

香港城市大學
City University of Hong Kong

Master of Science in Applied Physics

理學碩士（應用物理學）

Student Handbook
2021-2022

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1 Programme Aims

The programme aims to provide advanced Physics education for university graduates in physical science or engineering disciplines. Students will also have the unique opportunity to obtain post-graduate level training in applied physics with highly marketable professional skills in the Bio-medical Physics and Energy Materials Physics sub-fields. R&D scientists and engineers working in the industry will find the programme particularly useful as a channel to upgrade their knowledge and skills through rigorous theoretical and experimental training in current advanced topics of applied physics. The graduates of this programme will gain knowledge on physical principles and how these principles can be applied to practical problems in specific related professions. The training and knowledge provided are suitable for employment as medical technical specialists and engineers in electronic and renewable energy industries in Hong Kong, China and other South Eastern countries. This programme will also serve as a bridge for students to pursue Ph.D. studies in Physics and related engineering fields (Materials Science, Electrical Engineering, Mechanical Engineering).

2 Programme Intended Learning Outcomes (PILOs)

Upon successful completion of this Programme, students should:

No.	PILOs	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
		A1	A2	A3
1.	Have acquired an extensive and in-depth physical knowledge of and analytical skills in various fields in applied and engineering physics.		✓	
2.	Have developed the ability to apply the knowledge of applied and engineering physics to generate creative and ethical solutions in the working environment.		✓	
3.	Be able to communicate effectively with applied and engineering physics related professions.		✓	
4.	Be able to apply textbook theories to applied and engineering physics problems.	✓	✓	
5.	Be able to design and conduct experiments, as well as to critically analyze and interpret data.	✓		✓
6.	Be able to identify, formulate, solve engineering or scientific problems and generate new ideas in the relevant subfields of applied and engineering physics.	✓		✓
7.	Have developed necessary skills to present research findings in a logical manner to the scientific community.	✓	✓	✓
8.	Recognize the need for, and an ability to engage in life-long learning.	✓		

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishments of discovery/innovation/creativity through producing/constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3 Programme Structure (Combined Mode: Full-time or Part-time)

The programme is offered in a 2-year part-time mode which extends over 4 semesters, or in one year full-time mode consisting of two semesters.

Local students taking programmes in combined mode can attend full-time (12-18 credit units per semester) or part-time (no more than 11 credit units per semester) study in different semesters without seeking approval from the University. For non-local students, they will be admitted to the programme for either full-time or part-time studies. Non-local students must maintain the required credit load for their full-time or part-time studies and any changes will require approval from the University.

4 Programme Requirement and List of Courses Offered in 2021/22

To complete the programme, students have to acquire a total of 30 credit units (CUs), of which 18 CUs must be acquired from core courses in graduate level applied physics and the remaining 12 CUs can be acquired from a list of elective courses which are structured for advanced applied physics in the specialized areas of General Advanced Physics, Energy Materials Physics and Biomedical Physics.

Highly motivated students may be eligible to enroll in a 9 credit course “Advanced Research in Applied Physics” to acquire necessary skills for carrying out independent research in applied physics. Students will have the valuable opportunity to work with faculties on cutting edge research in condensed matters, quantum information, energy materials and biomedical physics.

4.1 Core Courses (18 credit units)

Course Code	Course Title	Credit Units	2021-2022 Semester
PHY5501	Modern Characterization Techniques for Materials Physics	3	A
PHY6501	Advanced Instrumentation and Measurement Methods for Experimental Physics	3	B
PHY6502	Advanced Computational Methods	3	A
PHY6503	Mathematical Methods for Scientists and Engineers	3	A
PHY6504	Physics at Nanoscale	3	B
PHY6505	Modern Topics in Engineering and Applied Physics	3	B

4.2 Electives (12 credit units)

Course Code	Course Title	Credit Units	Specialized Area	2021-2022 Semester
PHY6180	Modern Scattering Methods in Materials Science	3	All areas	-
PHY6251	Advanced Quantum Mechanics	3	General graduate level physics	A
PHY6252	Statistical Mechanics	3	General graduate level physics	B
PHY6254	Fundamentals of Laser Optics	3	General graduate level physics	-
PHY6506	Advanced Electrodynamics	3	General graduate level physics	-

PHY6521	Advanced Solid State Physics	3	General graduate level physics	B
PHY6522	Advanced Imaging Physics	3	Biomedical physics	-
PHY6523	Advanced Nuclear Medicine Physics	3	Biomedical physics	-
PHY6524	Advanced Radiotherapy Physics	3	Biomedical physics	-
PHY6525	Advanced Wave Functional Materials for Energy Applications	3	Energy materials physics	-
PHY6526	Energy Materials: Physics and Applications	3	Energy materials physics	A
PHY6527	Environmental Physics	3	Energy materials physics	-
PHY6528	Advanced Research in Applied Physics	9		A+B

5 Maximum Study Period

MScAP students will have to complete their studies within the stipulated maximum period of study, which is 2.5 year for full-time mode and 5 years for part-time/combined mode. The maximum period of study is inclusive of programme transfer and any periods of leave of absence and suspension of studies.

6 Academic Regulations

Students should observe the University's Academic Regulations for Taught Postgraduate Degrees at all times. For further details and most updated information, please always refer to the website of Chow Yei Ching School of Graduate Studies (SGS) (<https://www.sgs.cityu.edu.hk/student/tpg/regulations/acadreg>).

7 Academic Honesty

Students must pursue their studies with academic honesty. Academic honesty is central to the conduct of academic work. Students are expected to present their own work, give proper acknowledgement of other's work, and honestly report findings obtained. As part of the University's efforts to educate students about academic honesty, all students are expected to complete the Online Tutorial and Quiz on Academic Honesty and make a Declaration on their understanding of academic honesty.

Students who commit an act of academic dishonesty which is regarded as a **serious academic offence** in the University may lead to disciplinary action with a penalty including without limitation, expulsion from the University, debarment from re-admission, deprivation of an academic award already conferred or revocation of a certification granted.

Academic dishonesty includes but is not restricted to the following behaviors:

- Plagiarism, e.g., the failure to properly acknowledge the use of another person's work or submission for assessment material that is not the Student's own work;
- Misrepresentation of a piece of group work as the Student's own individual work;
- Collusion, i.e., allowing another person to gain advantage by copying one's work;
- Unauthorized access to an examination/test paper;
- Possession/use of unauthorized material in assessment;
- Unauthorized communication during assessment;
- Use of fabricated data claimed to be obtained by experimental work, or data copied or obtained by

unfair means;

- Impersonating another Student at a test or an examination or allowing oneself to be impersonated;
- Use of fraudulent documents and/or information to gain advantage for any academic work, e.g. submission of a fraudulent medical certificate to request for a make-up examination.

For details of the rules on Academic Honesty, students should refer to the website of Office of the Provost (www.cityu.edu.hk/provost/academic_honesty/rules_on_academic_honesty.htm).

8 Assessment and Progression

The assessment system consists of a combination of assessments in course work and written examination. The assessment criteria vary according to the different components of a course but students are provided with as many opportunities as possible to demonstrate their competence.

Course work consists of student performance in written assignments, tutorials, projects and laboratories. Formal written examination(s) are normally held at the end of each semester.

Students should check the updated assessment criteria for different courses under the section of “Programmes and Courses” of the SGS’s website (<https://www.sgs.cityu.edu.hk/student/tpg/>).

When a student’s Semester Grade Point Average (SGPA) or Cumulative Grade Point Average (CGPA) falls below 2.0, he/she will be considered as having academic difficulties. The students should then consult the Academic Advisors or Programme Leaders for advice. If the CGPA is too low, the Examination Board may terminate the student’s study.

8.1 Mitigation

A student who reasonably believes that his/her ability to attend an examination, or in-course assessment with a weighting of 20% or above, has been adversely affected by circumstances beyond his/her control must submit the case, with documentary evidence, to the Department via AIMS, **as soon as possible but no later than 5 working days of the scheduled date for completing the affected examination or assessment.** It is the student’s responsibility to hand in the original copies of all the required documents to the Department by the aforesaid deadline as well.

Upon receipt of a mitigation request (including the original copies of the required documents), the Department will investigate the case, in consultation with the course-offering academic unit (if appropriate). Only compelling reasons such as illness, hospitalization, accident, family bereavement or other unforeseeable serious personal or emotional circumstances will be considered. If the case is substantiated, the Assessment Panel will then decide if a make-up examination or coursework or other alternative assessment will be offered to the student concerned. **Only one make-up examination will be arranged per course per semester.**

Further details can be obtained from the SGS’s website, under the section of “Students” → “Taught Postgraduate Programmes” → “Assessment” → “Illness or Other Circumstances Affecting Assessment” (<https://www.sgs.cityu.edu.hk/>)

8.2 Award Classifications

The various classifications are based on the CGPAs. The general guidelines are as follows:

Classification of Award	CGPA
Distinction	3.5 or above
Credit	3.2 - 3.49
Pass	2.0 - 3.19

8.3 Academic Regulations on Termination of Study

The Examination Board may terminate the studies of a student under the following circumstances:

- (i) the student's SGPA is below 1.00 for two consecutive enrolled semesters; or
- (ii) the student's academic progress is unsatisfactory and is unable to meet the conditions stipulated by the home academic unit after being put on Academic Probation for two consecutive semesters.

Students' studies will be terminated if they **FAIL** to pass a required course, or its equivalent/substitute course, after **three** attempts.

Further details can be obtained from the SGS's website

(<https://www.sgs.cityu.edu.hk/student/tpg/regulations/acadreg>).

9 Late Add/Drop Policy

Students can add or drop a course during the add/drop period prescribed by the University. After the add/drop deadline, requests for late drop of courses will **NOT** be entertained unless under exceptional circumstances (e.g. medical grounds). Such late requests must be submitted no later than the end of the teaching period for the relevant semester/term for approval by the Head of the course-offering academic unit.

10 Laboratory Safety

- 10.1 New research students/staff are NOT ALLOWED TO WORK in a laboratory before the completion of the safety training.
- 10.2 Students/staff SHOULD NOT WORK ALONE in a laboratory; when he/she needs to work with hazardous chemicals, e.g., strong acids and alkalis or on electricity connection, there MUST be at least one more person in the same room. All research personnel should seek the help of a companion when he/she must work in the laboratory outside normal office hours, otherwise he/she is required to utilize the Personal Alarm System in PHY labs. Experiments should not be left unattended.
- 10.3 Prior approval from your supervisor is needed to stay in a laboratory beyond 11:00 p.m. Form can be downloaded from <https://www.cityu.edu.hk/phy/students/Safety%20in%20Laboratories>.
- 10.4 SMOKING, EATING & DRINKING ARE STRICTLY FORBIDDEN. Do not bring food or drinks into a laboratory.
- 10.5 DO NOT RUN OR PLAY in laboratories.
- 10.6 Loose clothing is potentially hazardous. Secure ties and tie up long hair. You are also advised to wear laboratory coat.
- 10.7 Familiarise yourselves with the FIRE EXITS and ESCAPE ROUTES. These are posted in every laboratory.
- 10.8 Familiarise yourself with EMERGENCY PROCEDURES. These are posted at the entrance of each laboratory.
- 10.9 Wastes & solvents must be disposed of properly. Consult your supervisor or the technicians in case

of doubt.

- 10.10 All accidents must be reported to the technical officer/supervisor immediately.
- 10.11 Wearing EYE PROTECTION is mandatory when working with hazardous chemicals or operating UV instruments or LASERS, and in laboratories where such notices are posted. Consult your supervisor or the technicians for the appropriate type of eye-protection equipment. In other areas, you are encouraged to wear eye protection as a good safety practice. Users of laser classes 3B and 4 are reminded to undergo eye-sight tests arranged by the university. This should be carried out before the first use of laser and again before leaving the university.
- 10.12 Before commencement of a new experiment, you should complete a RISK ASSESSMENT and obtain approval from your supervisor. Risk Assessment Form can be downloaded from <https://www.cityu.edu.hk/phy/students/Safety%20in%20Laboratories>.
- 10.13 There is a separate set of rules governing the use of Radiation Laboratories. These are posted at the entrance of the Radiation Laboratory. All users must observe these rules.

For further details of safety guidelines, please refer to the PHY department website (<https://www.cityu.edu.hk/phy/students/Safety%20in%20Laboratories>).

11 Communication Channels

There are various channels of communication between students and the Department. On an informal basis, students having academic difficulties with a course are encouraged to approach the lecturer or tutor concerned. Tutors are also available for students having general academic problems.

A formal consultative process between students and staff exists in the Department in the form of a Joint Staff/Student Consultative Committee (JSSCC), to which two student representatives from each cohort of each mode will be nominated. The Committee meets at least once a semester. During the meeting, discussions are confined to matters of a general academic nature and the welfare of students. Students can express their views on the content and organization of the programme and identify any areas of difficulty.

Besides the JSSCC, students are also represented in the Programme Committee. One student representative from each programme cohort will be elected as member of the Committee. The Programme Committee meets at least once a semester and is charged with the responsibility of monitoring the operation and performance of the programme.

Students are also welcome to approach the Programme Leaders or course leaders whenever they encounter any study-related difficulties.

Programme Leader

Prof YU Kin Man

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Deputy Programme Leaders

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12 Useful Information**12.1 Course Registration for Semester A 2021/22**

- For 2021-22, students will be pre-registered in some of the core courses in both Semester A and B.
- The web registration period for Semester A will start from **23 August 2021 and end on 6 September 2021** but you need to check your time ticket from “AIMS”. For details on course registration, please refer to “Course Registration” under SGS website (<https://www.sgs.cityu.edu.hk/student/tpg/coursereg/>).
- Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your course registration after consulting the Academic Advisors if necessary.
- Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period.
- If a student drops a course after the add/drop period, an ‘X’ grade will be assigned for the course. The ‘X’ grade will be printed on the student’s transcript.

Important notes***How to do the Add/ Drop on web***

- Go to CityU home page (www.cityu.edu.hk).
- Log onto “AIMS” under “Quick Links”, and then click “Course Registration”.
- Choose “Add or Drop Classes”.

For details on course registration arrangements for 2021-2022, please refer to “Course Registration” under SGS website (<https://www.sgs.cityu.edu.hk/student/tpg/coursereg/>).

12.2 How to access your personal class schedule

- Go to CityU home page (www.cityu.edu.hk).
- Log onto “Portal” under “Quick Links”. *If you have problems in logging in, please follow the instructions in “Having problems logging in?”.*
- Select “View Student Schedule” under the “Courses I am taking” box.
- Click the “View Detail Schedule” button at the bottom of your timetable to display details of your class schedule.

12.3 How to access the interactive online learning classroom and get instructors’ handouts through Canvas

- Go to CityU home page (www.cityu.edu.hk).
- Log onto “Canvas” under “Quick Links”.
- Click “Courses” to see all the courses you have registered in current and previous semesters.

Canvas User Guides are available at “e-Learning” under the “IT Links” of the OCIO’s website (http://www.cityu.edu.hk/elearn/elearn_stud.html).

Online Learning Resources for Students are available at “Online Learning” under the “Academic Matters” at Office of the Provost’s website (<https://www.cityu.edu.hk/provost/>).

12.4 How to check curriculum requirements and course syllabuses

- Go to CityU home page (www.cityu.edu.hk).
- Click “Academics”, and then click “Programme and Course Catalogue”.

12.5 How to access your student email account

- Go to CityU home page (www.cityu.edu.hk).
- Click “Email” under “Quick Links”
- Click “@my.cityu.edu.hk (office 365)”

**For email communication, please state your full name, student number, contact telephone number and programme.*

**Always check and clear your email account, and make sure it does not exceed the quota (a maximum of 25GB).*

13 Student Development Services (SDS)

The SDS offers many student-centred services to students. It provides support and assistance for students in the following areas:

- Counselling Services
 - Psychological Counselling
 - Personal Development
 - Special Educational Needs (SEN)
- PE & Sports
- Financial Assistance
- Scholarships
- Career & Leadership

If you need any advice on your personal issues other than academic concerns, you may approach SDS to schedule a counselling appointment:

Tel.: 3442 8478

Email: sds@cityu.edu.hk

Address: Student Development Services, 6/F, Amenities Building

14 Administrative Support from General Office

Address: G6702, Green Zone, 6/F, Yeung Kin Man Academic Building

Office Hours: Monday to Friday

8:30 am - 12:45 pm

2:00 pm - 5:45 pm

Telephone: (852) 3442 7831

Fax: (852) 3442 0538

Email: phy.go@cityu.edu.hk

Website: www.cityu.edu.hk/phy

15 Appendix: Academic Staff Profile

STAFF

*Head of Department of Physics and Chair
Professor of Physics*

Prof X L Wang

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PhD Iowa State University, USA

Fellow, American Physical Society

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(for departmental matters)

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Personal Secretary

Ms Sare W Y Lau

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*Associate Dean (Research) of College of
Science and Chair Professor of Physics*

Prof R Q Zhang

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Associate Head and Professor

Prof K S Chan

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Chair Professor of Physics

Prof Wei Bao

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Prof Jeff Z Y Ou

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PhD University of Rochester, USA

Fellow, American Physical Society

Fellow, Optical Society of America

AREAS OF SPECIALISM

Neutron and synchrotron scattering

Phase transformation, deformation, magnetism,
residual stress determination

Metallic glasses, nanostructured materials, magnetic
shape memory alloys

Surface, interface and microstructures of
functional materials

Vapor-solid interactions

Computational materials science

Nanoscience

Semiconductor physics

Photonics technology

Nanoscience and nanotechnology

Spintronics

Superconductivity

Superconductivity

Quantum Magnetism

Strongly correlated systems

Neutron scattering

Atomic physics

Nonlinear optics

Quantum optics

Quantum information

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Chair Professor of Materials Engineering

Prof Paul K Chu

BSc *The Ohio State University, USA*

MSc PhD *Cornell University, USA*

Fellow, American Vacuum Society

Fellow, Institute of Electrical and Electronics Engineers

Fellow, American Physical Society

Fellow, Materials Research Society

Fellow, Hong Kong Institution of Engineers

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Plasma science and engineering

Surface engineering of functional materials

Biomaterials and nanobiology

Energy and sensor materials

Nanostructured thin films and interfaces

Professors

Prof S T Chu

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Integrated photonics

Sensors and sensing systems

Numerical methods

Prof K M Yu

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Ion Beam Analysis and Modification of Materials

Defects in Semiconductors

Photovoltaic Materials

Nitride and Oxide semiconductors

Transparent Conductors

Prof Peter K N Yu

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Radiation biophysics

Medical physics

Biointerfaces

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Nuclear magnetic resonance
Biophysics
Spectroscopy
Imaging

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Theoretical condensed matter physics
Spin quantum computation
Correlated electron system
Computational methods

Assistant Professors

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Soft matter physics
Polymer thin films
Self-assembly of nanomaterials
Atomic force microscopy

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Computational soft matter and biophysics
Polymer knots
Interactions between antimicrobial peptides and cell
membranes
Nanopore translocation of DNA
Effects caused by macromolecular crowding

Dr Denver D F Li

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Low-dimensional superconductivity
Oxide thin films and heterostructures
Pulsed laser deposition
Oxide interface physics
Novel materials synthesis

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Theoretical and Computational Physics
Low-dimensional systems

Dr Qi Liu

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Neutron and Synchrotron X-ray Scattering
Energy Storage and conversion
Battery materials
Phase transition

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Condensed matter physics

Angle Resolved Photoemission Spectroscopy

Synchrotron-Based Large facility experiments

Topological physics

Unconventional Superconductivity

Correlation effect

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Plasmonics

Metamaterials

Photonic crystals

Opto-mechanics

Computational electrodynamics

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Computational and theoretical condensed matter
physics

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Theoretical and computational physics

Quantum optical spectroscopy

Statistical mechanics