

HKUST

International Research Enrichment
HKUST School of Science



香港科技大學
THE HONG KONG
UNIVERSITY OF SCIENCE
AND TECHNOLOGY



Prof. Pak Wo Leung
Associate Dean of Science and
IRE Program Director

5 Jul 2021

What is IRE Program?

- Launched in 2013, tailor-made for students with particular interest in pursuing *research career* in science
- It offers outstanding science students an *early opportunities* to nurture their research abilities by participating in *international research*
- IRE Program is an independent and separate program choice
 - **JUPAS Program Code: JS5101**
- Intake quota: **21** per year
- Students can apply for IRE Program through:
 - Direct program choice in JUPAS or direct entry; OR
 - Transfer from the Science (Group A) (JS5102) or Science (Group B) (JS5103) programs to the IRE Program after the first year of study

Why INTERNATIONAL?

- The program is built on the premise that *early international exposure* is highly beneficial for the *success in a research career*
- HKUST is a *research-oriented university*, which is well-known for its excellence in research
- We have a *wide international connection* for offering students research opportunities in foreign universities
- Usually, it takes around 10 years to develop an academic research career and an *internationally recognized research work* is a “**must**” for a *good faculty job* nowadays



Class of 2019 Highlight of PhD Offers

Caltech / Biology
Yale University / Biology
Cornell University / Biology
HKUST / Life Science
UC Berkeley / Chemistry
Penn State / Applied Mathematics
Harvard University / Chemical Physics
Yale University / Physics
University of Maryland / Physics
University of Colorado / Physics
Rice University / Physics

International Research Enrichment (IRE)

Class of 2020 Highlight of PhD Offers

MIT / Material Science
Columbia University / Math
UC Irvine / Math
Caltech / Physics
Columbia University / Applied Physics
Columbia University / Physics
UIUC / Physics
Boston University / Physics
Northwestern University / Applied Physics

Unique Research-Based Program for **Future Scientists**

A tailor-made program for outstanding students pursuing a research career



Guaranteed with:

- Individualized Research Guidance and Mentoring
- Summer research internship
- Scholarship support
- Many more ...

2018 Summer Research Internship Host Institutions

BCB	Stanford, USA Monash, Australia	U. Chicago, USA
CHEM	MIT, USA Northwestern, USA	Yale, USA
MATH	UC Santa Barbara, USA UCLA, USA	Tennessee, USA
PHYS	Harvard, USA U. Chicago, USA Boston U., USA EPFL, Switzerland PSI, Switzerland	UC Berkeley, USA Yale, USA McGill University, Canada TU Munich, Germany

2019 Summer Research Internship Host Institutions

BCB	Johns Hopkins, USA Scripps Institute, USA	UCL, UK
CHEM	MIT, USA EPFL, Switzerland	UIUC, USA
MATH	Columbia, USA Missouri, USA	San Diego State, USA
PHYS	Princeton, USA Columbia, USA U. of Michigan., USA Penn State, USA Santa Fe Institute, USA	Oxford, UK King's College, UK CERN, Switzerland UBC, Canada



Our Faculty Members

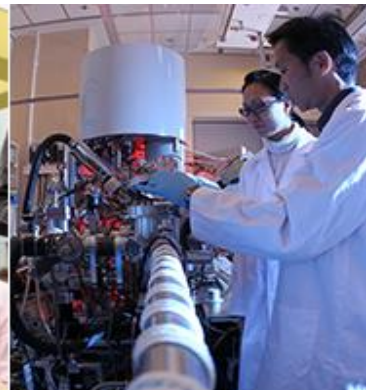
Faculty members have received awards and honors for outstanding achievements in research and scholarship:

Prestigious Honors

- State Natural Science Awards
- Croucher Senior Research Fellowships
- Croucher Innovation Awards
- Morningside Gold Medal of Mathematics
- L'Oreal-UNESCO for Women in Science Award
- Achievement in Asia Award
- Khwarizmi International Award

Election to Top National Academics

- Academicians of the Chinese Academy of Sciences
- Foreign Associate of the US National Academy of Science
- Fellow of the American Physical Society
- Fellow of the Royal Society of Chemistry
- Fellow of the Society for Industrial and Applied Mathematics
- Fellow of the Academy of Sciences for the Developing World



International Rankings



QS World University
Ranking 2022
(No. 2 in Hong Kong)

Times Higher Education
World University
Ranking 2021

34 in the World



56 in the World



QS Asian University
Rankings 2021
(No. 2 in Hong Kong)

Times Higher Education
Asia University
Ranking 2021

8 in Asia



8 in Asia



QS Top 50 Under 50
Rankings 2021
(No. 1 in Hong Kong)

Times Higher Education
Young University
Ranking 2021

2 Young University



3 Young University

QS World University Rankings 2021 (By Subject)



Chemistry
(No. 1 in HK)



Materials
Sciences
(No. 1 in HK)

31

16

42

36

Mathematics
(No. 1 in HK)



Natural Science
(No. 1 in HK)

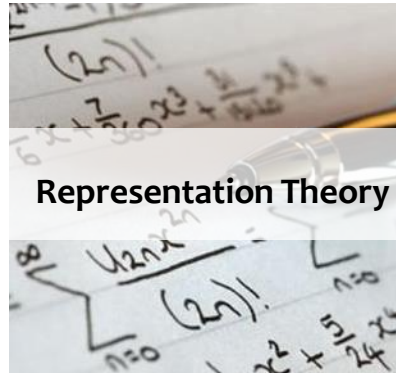
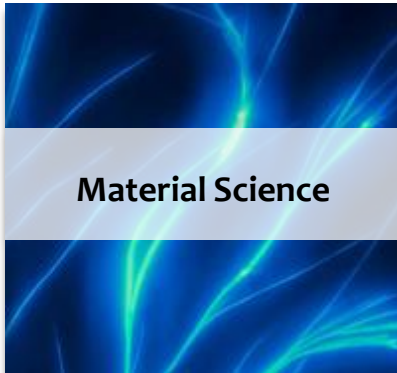
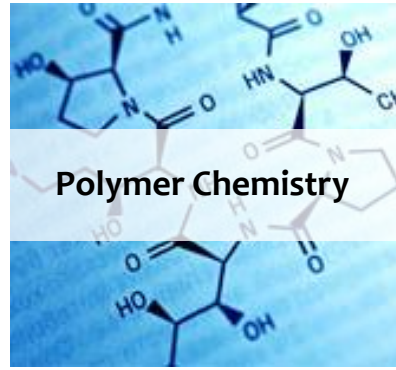
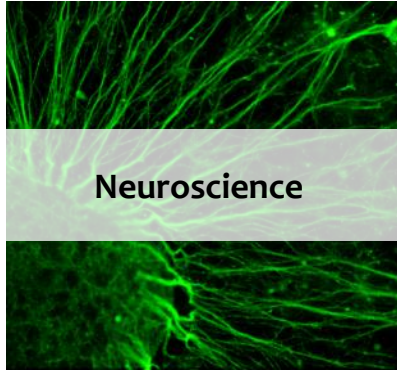
Statistics and Operational Research: #47 (No. 1 in HK)

Physics and Astronomy: #37 (No. 1 in HK)

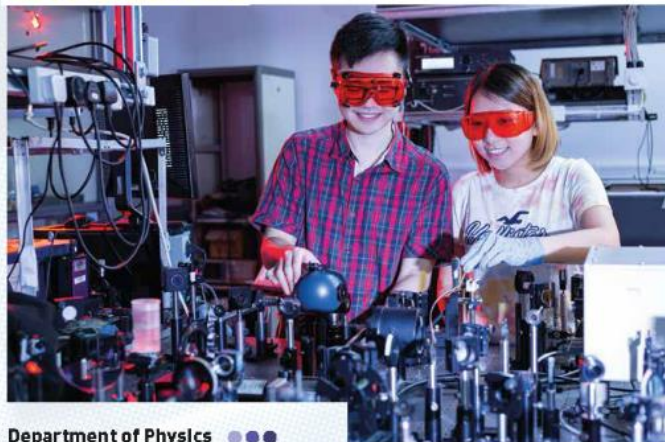
Environmental Sciences: #41 (No. 1 in HK)

Research Excellence

Top-notch fundamental science research gearing towards paradigm shift



RESEARCH EXCELLENCE



Department of Physics ●●●

Research Foci

- Atomic, Molecular, and Optical (AMO) Physics
- Biophysics
- Computational Physics
- First Principles Studies of Material Properties
- Information Physics
- Nano Materials
- Particle Theory and Cosmology
- Physics of Semiconductors
- Soft Condensed Matter Physics
- Strongly Correlated Electron Systems
- Surface Physics
- Ultrafast Photonics and Nonlinear Optics
- Wave Phenomena and Wave Functional Materials

The Department concentrates its resources on condensed matter physics with potential relevance to the technological industry. Faculty research focuses on optical condensed matter and statistical physics, and includes the physics of lasers, solid state, mesoscopic systems, devices nanomaterials, thin films, surfaces, interfaces, liquid crystals, polymers and composites.

The Department also has a close link with HKUST's front-running William Mong Institute of Nano Science and Technology for the interdisciplinary collaboration in the area of nanomaterials and nanotechnology.

Department of Mathematics ●●●

Research Foci

- Algebra and Number Theory
- Geometry and Topology
- Analysis and Differential Equations
- Applied and Computational Mathematics
- Financial Mathematics
- Probability and Statistics
- Data Science

The Department enjoys a range of up-to-date facilities and equipment for teaching and research purposes. The department's computer laboratory and Math Support Center are equipped with 70 desktop computers for undergraduate and postgraduate students. The Department also provides an electronic homework system and a storage cloud system to enhance teaching and learning.

To assist computations that require a large amount of processing power, a High Performance Computing (HPC) laboratory was setup in 2000. By making use of these powerful computing facilities, our faculty and students are able to solve computationally intensive problems in their innovative research projects so that they can stay at the forefront of their fields.



RESEARCH EXCELLENCE

Department of Chemistry ●●●

Research Foci

- Analytical/Environmental Chemistry
- Chemical Biology
- Material Sciences
- Molecular Dynamics and Structure of Complex Systems
- Synthetic Chemistry

The Department is well equipped with modern laboratories and state-of-the-art instrumentation. In addition, the Department has international links with major chemical industries and has played a key role in setting up university-wide collaborations involving universities, research institutions and companies in Hong Kong, the Mainland China, Japan, Europe and the US.



Department of Ocean Science ●●●

Research Foci

- Marine Ecology
- Oceanography
- Ocean Technology

The Department emphasizes on building multi and cross-disciplinary research and educational programs in Ocean Science and Technology. Our primary study sites include the estuarine environment of the Pearl River, the coastal bays of Hong Kong, and the deep sea (including the South China Sea). Our Ocean Research Facility on campus is a key item of infrastructure supporting our marine researches, while the Environmental Central Facility provides a range of equipment and technology commonly used in water and atmospheric environmental researches.



Division of Life Science ●●●

Research Foci

- Cellular Regulation and Signaling
- Cancer Biology
- Developmental Biology
- Molecular and Cellular Neuroscience
- Macromolecular Structure and Function
- Biotechnology and Medicinal Biochemistry

The Division has established robust research infrastructure in a broad range of areas. The Animal Care and Plant Care Facility provides a centralized and modern facility for study of animals and plants. Centralized state-of-the-art facilities for biochemical and cellular studies are provided by the Biosciences Central Research Facility. Faculty members working in these areas form a coordinated research team. Such coordination takes full advantage of the faculty's expertise in generating innovative development and productive research.



港6項科研奪國家科學技術獎 科大唐本忠獲自然科學最高獎

【香港南粵訊】記者張合輝攝
昨日在北京市舉行、評選出由
271個項目中，香港科學家王樹定
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Leading global scientists to join HKUST in Alzheimer's research

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香港科技大學和哈佛大學科學家發現探測極早期宇宙演化歷史的方案

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科大小箱40分鐘驗新肺炎 深穗疾控採用 可隨時供港府

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科大新型冠狀肺炎檢測儀 操作流程

由微流生物芯片、便攜式「聚合酶鏈式反應」(PCR)儀、樣本處理系統、生物檢測芯片和新型病毒核酸檢測系統組成，可同時檢測6個樣本。

1 前處理儀

以試管在儀器內取出樣本，樣本經測試，放入「前處理儀」，加熱至95℃。

2 微流PCR芯片

樣本以微流方式處理，再混合其他試劑，注入微流PCR芯片中。

3 PCR儀

新PCR芯片，製成「微流」，放入微流PCR儀，最快40分鐘有化驗結果。

資料來源：科大物理學系教授陳維雄攝

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科大病毒檢測儀 最快36分鐘有結果

香港科技大學成功研製全球最快檢測新型冠狀肺炎病毒檢測儀，最快可於36分鐘內迅速確。

全球最快

香港科技大學成功研製全球最快檢測新型冠狀肺炎病毒檢測儀，最快可於36分鐘內迅速確。

手提設計內置充電 可戶外用

新型檢測儀由科大物理學系盧維佳及其團隊成員高博博士等人研發，按科大提供的資料顯示，深圳市尚維高科技有限公司按照。

科大研製出快速新型冠狀肺炎病毒檢測儀，最快可於36分鐘內迅速確診冠狀肺炎病毒，新型檢測儀已於內地投入服務。

Researchers in HK make quicker test kit for virus

New portable device is said to be able to detect novel coronavirus in as little as 40 minutes

Albert Han albert.hang@scmp.com

A group of Hong Kong researchers yesterday said they have invented a cost-effective device that can detect the novel coronavirus in as little as 40 minutes.

The team, led by Weijia Wen, a physics professor at the Hong Kong University of Science and Technology, said the device - which inspected body fluid samples - could spot the coronavirus more quickly than ever before.

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科大研發新藥治肺頑症

【大公報訊】記者潘嘉平報導：可致命的肺結節病一直無治愈方法，科大團隊近日發現一種有效調劑炎症的分子，它有助治療肺結核病患者。科大並與美國公司研發新藥，目前已進入臨床二期試驗階段，估計新藥數年後可推出市面，之後可考慮與本港的醫院合作。該新藥較傳統肺病治療藥物更精準用於肺部，因而副作用小，亦可用於治療早期肺病。

科大團隊昨公布該項研究結果時指出，肺結節病是一種間質性肺病，在內地估計有超過50萬名患者，香港每年亦有約120

宗廟間質性肺病的特發性纖維化新症，病的成因包括空氣污染及吸煙等。爲找到有效療法，科大研究人員利用10年時間，發現一種新型「RNA合成酶蛋白」分子，利用動物實驗，發現有助調節免疫系統功能。

科大生命科學院講席教授及醫古合作項目被壽人、中國科學院院士張明傑表示「科大利用該原理，研發發達新藥「ATYR1923」，可以治療因免疫系統過度活躍而引起的肺結節病，以及其他纖維化肺病。

▲科大講席教授、中國科學院院士張明傑(左)指新藥可治療肺結節病及其他纖維化肺病
大公報記者潘嘉平攝

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科大研發LBS顯微鏡 拍攝細胞快千倍

科技大學團隊研發新型線性貝塞爾光片(LBS)顯微鏡，成像速度快現有的共聚焦顯微鏡一千倍，每秒可拍攝五百張影像，只需半秒便可拍出色、三維影



■ 科大團隊研發新一代顯微鏡，圖為團隊成員趙鵬(右起)、杜勝望、趙陸偉。

像。由於新顯微鏡光毒性僅是聚焦顯微鏡一千分之一，減低對細胞傷害，令細胞壽命可延長至數天，加上成像速度快一千倍，有利中途注入藥物測試，觀察細胞反應，助檢測藥物成效，並解開某些疾病的成因與演變。

掃描細胞減傷害

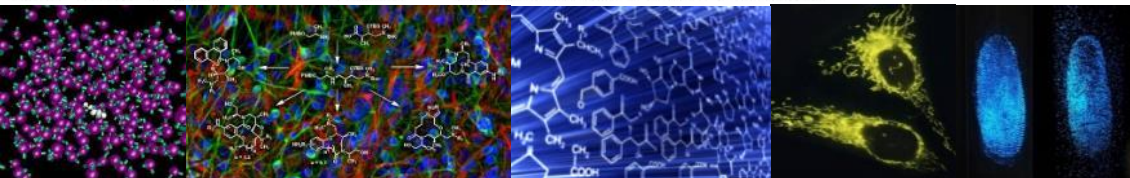
科技大學物理學系和化學及生物學系教授杜勝望、物理學系榮休教授雷明德，以及他們的博士生團隊，花兩年時間研發新型線性貝塞爾光片(LBS)顯微鏡。現有的共聚焦顯微鏡亦可拍攝立體生物細胞圖像，過程須由激光照射細胞樣本，團隊成員之一博士生趙鵬稱，激光比烈日下的陽光強一百萬倍，即使是較頑強的癌細胞，部分植物細胞，經過十至十五次3D影像拍攝，便會被殺死，不利細胞生物學研究。

團隊研發的新顯微鏡，關鍵在於以超薄貝塞爾光

片(LBS)，取代強激光，前者光片厚度僅三百納米，當掃描細胞時，可減低對其傷害。由光引起、可導致分子變化的光毒性，LBS僅是共聚焦顯微鏡的千分之一。趙鵬形容，共聚焦顯微鏡以激光照射於細胞每一點，猶如以針不斷穿刺水果，但LBS光片掃描細胞，就如將水果切片，每掃一次就可以檢視細胞。

新顯微鏡成像速度，亦較共聚焦顯微鏡快一千倍，每秒可拍攝五百張影像，半秒便可塑造三種顏色、三維影像，並可連續拍攝，觀察細胞變化，助研究人員研究蛋白質於細胞中運行軌跡，了解細胞變異。趙鵬又稱，可注入藥物，測試細胞對藥物的反應。團隊成立光原創新科技有限公司，盼為將技術產品化，該公司於科大百萬元創業大賽中，贏得創新獎及廣發證券獎。他們已為新顯微鏡申請專利，初步有大學、藥廠對產品有興趣，未來希望吸引買家購買。

記者 魏綺婷



科學需要女性 不讓男士專美

科大首位女副校長葉玉如助女學者平衡家庭工作



香港大學副校長(紀潔儀) 大學副校長 葉玉如，是首位獲此殊榮的香港女學者。葉玉如於1990年，與丈夫李國章結婚，育有兩子一女。葉玉如於1990年，與丈夫李國章結婚，育有兩子一女。葉玉如於1990年，與丈夫李國章結婚，育有兩子一女。

「升遷、晉級，都是女性職涯上的重要里程碑。在學術領域，女性往往會遇到一些困難，但女性學者往往能克服這些困難，取得成就。女性學者往往能克服這些困難，取得成就。女性學者往往能克服這些困難，取得成就。」

HKUST Researchers Discover the Genetic Contributions to Alzheimer's Disease in the Chinese Population Offering Important Clues to the Development of Effective Diagnosis and Treatments

科大研究團隊發現中國人群阿爾茲海默症相關的遺傳風險因子為疾病診斷和治療提供重要基礎

28-03-2018

香港科技大學(科大)的研究團隊發現中國人群阿爾茲海默症相關的遺傳風險因子。

研究小組由科大副校長(研發及研究生教育)、分子神經科學国家重点實驗室主任暨晨興生命科學教授葉玉如帶領，合作夥伴包括倫敦大學學院的John Hardy教授和莫健英博士、北卡羅萊納大學的李蘊教授、中國科學院深圳先進技術研究院及香港科大深圳研究院的陳宇教授，以及復旦大學華山醫院的郭政浩教授。

阿爾茲海默症是一種隨著年齡增長而逐漸惡化的神經退化性病症，是最常見和最為人知的認知障礙症，也是導致老年人死亡的主要原因之一。患者腦部出現澱粉樣蛋白斑、神經纖維纏結及神經炎症等徵兆，導致認知減退和神經元死亡。隨著全球人口老齡化的加劇，阿爾茲海默症的發病率亦隨之急升，但致病原因尚未能明確，其診斷和治療面臨巨大挑戰。

通過尋找疾病相關的遺傳風險因子來瞭解遺傳因素在病發中的作用，是解析阿爾茲海默症病因的重要途徑。由於遺傳風險因素可能會因不同族群而有所差異，因此針對不同族群的遺傳研究至關重要。然而至今有關研究仍主要是在高加索人群中開展，其他族群的數據相對缺乏。葉教授的研究率先在中國人群中探索了與阿爾茲海默症相關聯的遺傳風險因素。



GF Securities Award on Healthcare

The Seventh Annual HKUST One Million Dollar Entrepreneurship Competition Award Presentation Ceremony



研究團隊成員(左起)：中國科學院深圳先進技術研究院陳宇教授、科大生命科學院教授李蘊教授、科大副校長(研發及研究生教育)葉玉如教授、博士周曉曉及倫敦大學學院莫健英博士。

AI-Personalized Medicine: Directing a Complex System to Desired Fate

HO Chih-Ming
University of California, Los Angeles

Biological and Environmental Evolution during the Deep-time Critical Climate Transitions

SHEN Shuzhong
Nanjing University

Trends in Environmental Science Research in China

JIANG Guibin
Chinese Academy of Sciences

Blood Factors as Regulators of Brain Function

Tony WYSS-CORAY
Stanford University

New Routes to the Formation of Complex Structures and Metastable Materials

Thomas KUECH
University of Wisconsin-Madison

Neural Engineering and Rehabilitation

June 3-4, 2019

Recent Developments of InGaN/GaN Based Laser Diodes for Energy Efficient Solid State Lighting and Displays

Steven DENBAARS
University of California, Santa Barbara

Statistical Machine Learning for Financial Prediction and Inference

FAN Jian-Qing
Princeton University

Genomics in Neurodegenerative Disease – What Are We Up To

John HARDY
University College London

Inverse Problems, Imaging and Partial Differential Equations

Some faculty



Prof. Gunther Uhlmann
IAS Si Yuan Professor,
Chair Professor of Mathematics
2011 Bocher Memorial
Prize

Prof. Ching W. Tang 鄧青雲

IAS Bank of East Asia Professor,
Chair Professor of Department
of Electronic and Computer
Engineering,
Department of Chemistry,
Department of Physics

- Father of OLED
- 2011 Wolf Prize in Chemistry
- 2014 Nick Holonyak Jr. Award



Prof. George Smoot
IAS TT & WF Chao Foundation
Professor,
Chair Professor of Physics
2006 Nobel Prize in
Physics

Admissions Requirements and Admissions Score (SSCI-A/SSCI-B/IRE)

The University *general admissions requirement*:

- i. 4C + 2X (four core subjects plus two electives), or
- ii. 4C + M1/M2 + 1X (four core subjects with M1/M2 plus one elective)

Minimum Level Requirement IRE (JS5101) SSCI-A (JS5102) SSCI-B (JS5103)	Minimum Level Requirement
English Language	3
Chinese Language	3
Mathematics (Compulsory Part)	2
Liberal Studies	2
Elective 1 (Science Elective) Must be one of: Biology/ Chemistry/ Physics/ Combined Science/ M1/M2	3
Elective 2 Any one Category A subject OR M1/M2	3

JUPAS score calculation for **IRE (JS5101)**

Unweighted best 5 subjects which include:

Subject 1	English Language
Subject 2	Mathematics (Compulsory Part)
Subject 3 & 4	Best Two Science Electives Must be two subjects from: Biology/ Chemistry/ Physics/ Combined Science/ M1/M2
Subject 5	Next Best One Subject Can be core, M1/M2 or any Category A subjects

Admissions Scores 2020

		English	Chinese	Math (Comp)	Liberal Studies	Elective 1	Elective 2	Elective 3	M1/Ms	Weighted Score [#]	Highest Attainable Weighted Score	
Best 5	JS5102 Science (Group A)	Median	3	3	5	4	3	4	-	4	27.5	52.5
		Lower Quartile	4	4	4	4	3	4	-	3	26	
	JS5103 Science (Group B)	Median	4	4	4	4	4	4	4	-	30	52.5
		Lower Quartile	3	4	4	3	4	4	-	-	28.5	
	JS5101 International Research Enrichment (IRE)	Median	5	4	5*	5*	5**	5*	5*	5*	30	35
		Lower Quartile	4	4	5**	3	5*	5	4	5**	29	

Remarks:

For weighted score calculation, please refer to HKUST JUPAS Calculator <https://join.ust.hk/jupas-score> .

Scholarship Schemes

Scholarship Scheme for JUPAS – HKDSE

Students with any subject achieved Level 5**

HKDSE Requirements	Total Award Level
6 subjects or above with 5**	Full tuition plus living allowance of \$55,000, renewable for normal duration of study
5 subjects with 5**	Full tuition plus living allowance of \$55,000, renewable for normal duration of study
4 subjects with 5**	Full tuition, one-off and HK\$40,000, one-off
3 subjects with 5**	Half tuition, one-off and HK\$30,000, one-off
2 subjects with 5**	HK\$30,000, one-off
1 subject with 5**	HK\$15,000, one-off

Students in SSCI program with the weighted DSE score achieved 31 or above

HKDSE Requirements	Exchange Scholarship
DSE score achieved 31 or above	HK\$10,000



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