Online Courses by PolyU

MicroMasters®
Professional Certificates
XSeries

MOOCs
Massive Open Online Courses

Summer 2021 Edition

SPOCs
Small Private Online Courses

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

EDC Educational Development Centre
教學發展中心

Communities
of Practice

MicroMasters in International Hospitality Management

edX

Develop your leadership skills for the global hospitality industry.

This programme equips participants with in-depth knowledge about the latest technology in the field, market segmentation for the luxury traveller, and cutting-edge marketing, human resource and related business practices. It enables participants to learn through a blend of strategic perspectives and pragmatic implementation, interdisciplinary subject exposure, problem identification, decision-making theory and management application.

> The MicroMasters programme is a perfect extension of HK PolyU SHTM's vision and approach, broadcasting top-tier teaching to thousands of students around the world.
>
> – Richard Hatter,
> General Manager of Hotel ICON

> It's difficult for our staff to study and work at the same time. We are truly excited to that HK PolyU now offers a MicroMasters programme that offers an innovative and flexible learning opportunity that will help advance the next generation of professionals in the hospitality industry.
>
> – Eric Du,
> General Manager of The Dragon Hotel, Hangzhou, China

CAREER LEADER

Staff involved:
Prof Kaye Chon
Prof Haiyan Song
Prof Cathy Hsu
Prof Rob Law
Dr Tony Tse
Richard Hatter
Dr Basak Denizci Guillet
Dr Alice Hon
Dr Sanwong Park
Dr Markus Schuckert
Dr Dan Wang
Dr Daniel Leung
Dr Pearl Lin

1. Managing Human Resources in the Hospitality and Tourism Industry*

Understand essential human resources concepts and theories and analyse contemporary issues in the management of human capital.

This course analyses contemporary issues in the management of human capital in the hospitality and tourism industry, within both macro- and micro-perspectives. Participants will learn how organisational culture impacts human capital and how different cultures approach human resource management. The course also cultivates leadership skills, enabling participants to staff their teams effectively and manage employee motivation.

*Courses in this programme may be taken individually and in any order

2. Managing Marketing in the Hospitality and Tourism Industry

Learn the latest principles and theories in marketing and how to apply them to the hospitality and tourism industry.

This course explores the unique challenges presented by marketing within the hospitality and tourism industry, in which the focus is on selling services and memories rather than goods. Participants will learn best practices for building customer loyalty and creating a strong brand and learn how to efficiently communicate with stakeholders through integrated marketing communications.

3. Hospitality and Tourism Technology and Innovation

Gain an in-depth understanding of the strategic applications of information and communication technologies innovations in the hospitality and tourism industry.

This course looks in depth at the strategic applications of information and communication technologies (ICT) innovations in the hospitality and tourism industry. Participants will learn about the role of ICT infrastructures and tools in shaping business environments, business models, marketing practices, revenue strategies and customer service. The course also explores how big data analytics can support decision-making.

4. Luxury Management

Understand the power of a luxury brand and gain the business skills needed to provide premium goods and services within the hospitality and tourism industry.

This course equips participants with the strategies and skills for managing luxury brands within the hospitality and tourism industry. Participants will analyse the essence of a luxury brand and learn marketing techniques and trends to better position their services. They also can learn how luxury brands are created and how to effectively communicate the value of their brand.

School of Hotel and Tourism Management

Professional Certificate: Fashion Design and Creation

edX

Learn how to make clothes to fit your own body shape.

Over two courses, Designing and Creating Skirts and Designing and Creating Trousers, this Professional Certificate Programme teaches participants how to design and make garments to fit individual body shapes for men and women, providing the knowledge and skills needed to create the perfect fit and style. Once participants have completed the programme, they can apply the same learning structure to creating any garment.

#fashioncreating

> " Verve Clothing Company Ltd. is a multi-product clothing manufacturer with a distinctive, young and commercial handwriting. We specialise in ladies', teens' and young girls' fashion and are based in London. We pride ourselves on identifying key trends early and our dynamic design team's ability to produce exclusive prints means no time nor trend is lost! Fashion Design and Creation would provide the next generation of designers the basic fundamental skills to join design teams like ours at Verve Clothing. The construction side of Fashion Design and Creation would provide the skills and training to enter the fashion industry as pattern cutter or sample machinist, working up to roles in garment technology, on the fit and production side of fashion. The two courses are comprehensive in fashion designer skills which are essential to the success of new recruits to the industry.
>
> – George Gregoriou,
> Managing Director,
> Verve Clothing Co. Ltd. "

Staff involved:
Tanya Dove
Dr Kristina Shin
Jacqueline Faulkner
Zed Tu
Jalice Cheng

FASHION Design & Creation

1 Designing and Creating Skirts*

Learn the construction and style adaptations of skirts from a design and creation perspective, completing the course with your own designed and made-to-measure finished skirt sample.

This course covers how to design and create unique skirts of any length or width, with different waistbands, pockets, openings, pleats, gathers and godets. Participants develop the skills to adapt basic blocks and patterns to individual deigns by use of fullness and manipulation techniques, and create specification sheets for commercial patterns and manufacturing.

*Courses in this programme may be taken individually and in any order

2 Designing and Creating Trousers

Learn the construction and style adaptations of trousers for men and women, from a design and creation perspective, completing the course with your own designed and made-to-measure finished trouser sample.

This course covers how to design and create jeans and casual trousers like cargo pants, dance pants and jogging bottoms using different patch pockets, seaming details and fly front constructions. Participants learn how to sew lining into trousers and construct jet and welt tailored pockets. The designs provided should inspire them to create their own unique style, using their own choice of fabrics, for a specific body shape and size.
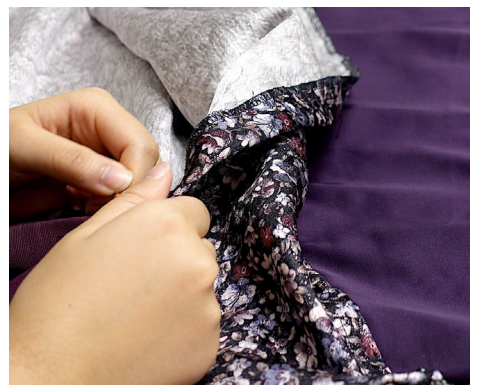
1 Record body measurements

2 Create your garment block and fitting sample

3 Select fabrics and develop adaptations for your garment

4 Be inspired by designs and explore the history of your garment

5 Create your garment

Institute of Textiles and Clothing
Faculty of Applied Science and Textiles

www.polyu.edu.hk/mooc

Professional Certificate: Business Excellence in a Knowledge-Driven Industry 4.0 World

edX

> The Fourth Industrial Revolution represents a fundamental change in the way we live, work and relate to one another. As digital technologies mature and evolve, all organisations will be required to re-imagine their models and processes. Knowledge Management and Innovation will be essential tools in meeting the challenge. These courses will be a unique learning opportunity to delve into the digital future that awaits us all.
>
> – Les Hales,
> President,
> Hong Kong Knowledge Management Society

Learn how to strategise investments in digital transformations.

Based on two proven courses that have been on offer for the past three to five years, this programme is designed to help managers and consultants from a non-technical background decide where to invest and design their digital transformation strategies in connected, networked societies and develop smart products, services and systems.

> I believe these interactive and well-organised courses will help learners unleash their talent and spark new thoughts in developing smart solutions to prevail over the challenges in the new digital era. Undoubtedly, this will be a key asset for personal growth and career advancement.
>
> – Peter Chak,
> Vice Principal,
> Towngas Ltd.

Staff involved:
Prof Eric Tsui
Prof Emeritus WB Lee
Prof Susanne Durst (The University of Skövde)
Dr Usama Fayyad (CEO, Open Insights)
Prof Norbert Gronau (The University of Potsdam)
Prof Jay Lee (The University of Cincinnati)
Prof Doug Vogel (The Harbin Institute of Technology)

1 Knowledge Management and Big Data in Business*

Learn how to apply a variety of people-, process- and technology-oriented tools to benefit individuals and organisations in performing knowledge work.

Participants explore the fields of Knowledge Management, Big Data and Cloud Computing and, in particular, how these three fields together form a compelling and disruptive force for business innovations in the knowledge-based economy.

*Courses in this programme may be taken individually and in any order

2 Industry 4.0: How to Revolutionise Your Business

Revolutionise your business using data, artificial intelligence and smart automations.

This course provides an introduction to the fourth industrial revolution, its major systems and technologies. It explores how new products and services will impact business and society – and how individuals, organisations and societies can take advantage of the opportunities and overcome the challenges.

> With the rapid development of science and technology, many new technologies such as Artificial Intelligence, the Internet of Things and advanced Robotics are becoming more mature and can be effectively applied in the textile and garment industry to create higher value. We need to engage and empower our colleagues. This Professional Certificate provides a good foundation to raise awareness of digital technologies at work, and equips teams with skillsets and mindsets in driving digital transformation.
>
> – Bessie Chong,
> Director,
> Esquel Group HR and Organisational Development

Department of Industrial and Systems Engineering
Faculty of Engineering

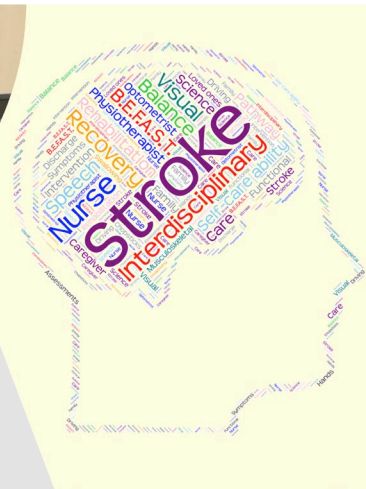# Professional Certificate: Introduction to Stroke Care

edX

> " The Hong Kong Stroke Society highly values the importance of multidisciplinary care in stroke rehabilitation pathway. This professional certificate programme will empower healthcare professionals and stroke patient caregivers with the essential skills on stroke rehabilitation. This is the expertise of the HKPolyU, a major regional institution which has already trained several generations of allied health professionals.
>
> – Richard Li,
> Vice President,
> The Hong Kong Stroke Society "

Learn how to make clothes to fit your own body shape.

Optimal stroke recovery outcomes depend on collaboration between the patient and a team of professionals from different health disciplines, who must work together to design a tailored rehabilitation programme. This programme is designed to support stroke survivors, their family members and caregivers develop their understanding and maximise chances of an optimal recovery outcome.

Staff involved:
Dr John Yuen
Dr Allen Cheong
Kitty Chan
Dr Helen Eng
Dr Elaine Kwong
Josephine Lau (The Chinese University of Hong Kong)
Richard Li (The Hong Kong Stroke Society)
Alice Wong (Hong Kong Baptist University)
Prof William Tsang (The Open University of Hong Kong)
Prof Kevan MA Gartland (Glasgow Caledonian University)
Prof Roger Watson (University of Hull)
Prof Patrick Brennan (University of Sydney)
Kit Sinclair (World Federation of Occupational Therapists)
Dr Judi Laprade (University of Toronto)
Dr Doris Chong (The Open University of Hong Kong)
Yuk Mun Ng (The Hong Kong Society for Rehabilitation)
Shirley Tse (The Hong Kong Society for Rehabilitation)

1 Human Anatomy for Stroke*

Learn about human anatomy from multiple healthcare professional perspectives through a case-based study of stroke.

In this course, participants gain an understanding of the basic concepts of anatomy and learn to 'dissect' the human body with a logical approach through exploring a typical clinical case of stroke. The course then moves on to present a series of video lectures on human anatomy, related to the case. It concludes with six healthcare discipline-specific role play videos and lectures given by a team of visiting professors from each field.

*Courses in this programme may be taken individually and in any order

2 Science of Stroke Recovery

Learn the rationale behind the stroke care pathway for supporting treatments and rehabilitation.

This course is designed to delineate the stroke recovery process and its underlying scientific rationale. Following the clinical case from Human Anatomy for Stroke, the course walks participants through the recovery journey, or stroke care pathway, involving multiple healthcare professionals. It goes on to explore intervention approaches practised in key healthcare disciplines, before assessing participants' knowledge using an experiential, case-based approach.

> " This certificate program covers a wide spectrum of stroke management from clinical to community perspectives. We advocate for partnership of patients and healthcare professionals. The programme can broaden the horizon of various personnel in stroke rehabilitation management.
>
> – Yuk Mun Ng,
> Head of Allied Health,
> The Hong Kong Society for Rehabilitation "

School of Nursing
Faculty of Health and Social Sciences

XSeries Programme in Chinese Culture: Tradition, Transformation and Interaction

edX

Discover Chinese culture with leading experts in the field.

This vibrant XSeries Programme showcases 15 experts in Chinese culture. It is composed of three compact courses and 15 fascinating topics. The topics touch on Chinese philosophy, Confucianism, Daoism, Buddhism, Sunzi, food and cuisine, politics, strategic thinking, literature, paintings, operas, education, and the history of China's cultural exchanges with other countries and regions.

Staff involved:
Prof Xiaorong Han
Dr Meng Li
Dr Mark Meulenbeld
Dr Lu Pan
Dr Kevin Conrad Jr. Schoenberger
Dr Wan-yi Wu
Dr Yu Zhang
Dr David Wan
Dr Silvia Fok
Dr Jack Chun
Dr Pak-sheung Ng
Dr Hsueh-yi Lin
Dr Brian Tsui
Dr Wicky Tse (The Chinese University of Hong Kong)
Dr Lang Chen (University of Michigan)
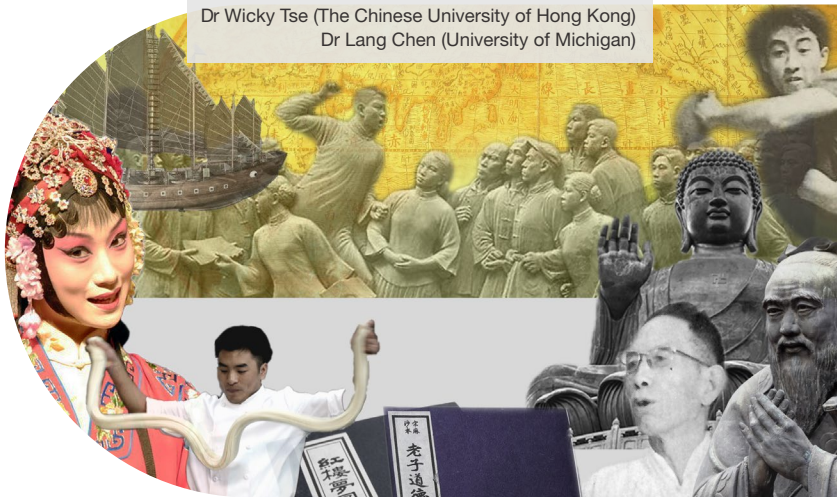
1 Chinese Culture: Tradition*

This compact course introduces five interesting aspects of traditional Chinese culture. They are (a) Confucianism, (b) Daoism, (c) Buddhism, (d) Sunzi's The Art of War and ancient Chinese warfare, and (e) the art of painting in the Song dynasty.

*Courses in this programme may be taken individually and in any order

2 Chinese Culture: Transformation

This compact course introduces five interesting aspects of Chinese culture in transformation. They are (a) The Four Great Classical Chinese Novels, (b) the art of Chinese opera, (c) private Confucian academies since the Song dynasty, (d) New Confucianism in the 20th century, and (e) gender politics in early New China.

3 Chinese Culture: Interaction

This compact course introduces five interesting aspects of Chinese cultural exchange and interaction with other countries in history. They are (a) China and the West, (b) China and Central Asia (c) China and Vietnam, (d) Colonialism, Anti-Colonialism and Pan-Asianism, and (e) Chinese Food and Cuisine.

> The XSeries Programme on Chinese Culture is one of a kind in its content and pedagogy. It showcases 15 experts on 15 fascinating topics on Chinese tradition, transformation and interactions with other countries.
>
> – Dr Jack Chun

Department of Chinese Culture
Department of Chinese and Bilingual Studies
Faculty of Humanities

www.polyu.edu.hk/mooc

Operations Research: An Active Learning Approach

> "This course explores a field of applied mathematics fundamental to a wide range of other disciplines including engineering and management. The first course of its kind on the subject, it helps students of mathematics at the University engage with operations research in more depth and also makes the topic more accessible to a global audience.
>
> – Dr Joseph Lee"

Learn the methodology and techniques of Operations Research to make informed decisions for solving operational problems.

This course helps participants understand and apply the methodology of Operations Research to investigate and tackle operational problems. Participants learn to formulate and apply Linear Programming techniques to solve optimisation problems, apply the Critical Path Method and PERT in project management and appreciate the use of simulation in studying the behaviour of stochastic operations systems.

HOW TO OPTIMIZE TRANSPORTATION ARRANGEMENT?

HOW TO SCHEDULE A PROJECT?

HOW MANY PRODUCTS SHOULD BE PRODUCED?
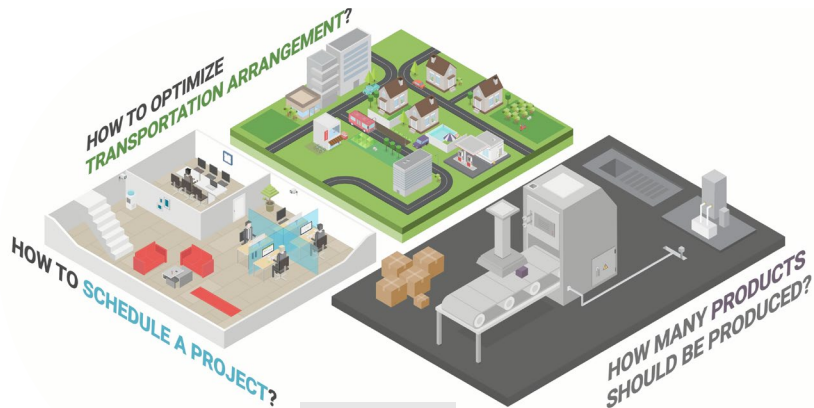
Staff involved:
Dr Joseph Lee
Adam Leung
Frankie Tsoi
Solomon Wong

Department of Applied Mathematics
Faculty of Applied Science and Textiles

www.polyu.edu.hk/mooc

Future Trends of Fashion and Textiles

> "This record-breaking course brings together the wisdom and passion of policy makers, business leaders, pioneers in research and development, academic leaders and associations to lead the industry to the next level. I am confident that this course will benefit not only students of fashion and textiles, but also practitioners, business owners and even financial analysts.
>
> – Dr Roger Ng"

Understand future trends in the fashion and textile industry via a forum series with bilingual subtitles and terminology support.

This course presents future trends in the supply chain of the fashion and textiles industry in a forum series with more than 40 speakers. It covers design, material, textile processing, garment manufacturing, marketing and retailing.

Staff involved:
Dr Roger Ng
Prof John Xin
Prof Kan Chi Wai
Dr Jimmy Lam
Dr Chester To
Dr Chris KY Lo
Dr Liu Wing-sun
Dr Wenjing Li
Prof Xianyi Zeng (Ecole Nationale Supérieure des Arts et Industries Textiles, France)
Dr Jocelyn Chen (Fu Jen Catholic University, Taiwan)
Steven Leung (Hong Kong Institution of Textile and Apparel)
Janet Cheung (Hong Kong Fashion Designers Association)

Institute of Textiles and Clothing
Faculty of Applied Science and Textiles

www.polyu.edu.hk/mooc

Staying F.O.C.U.S.E.D. in a Complicated World: Business Discipline

edX

Staying F.O.C.U.S.E.D. will guide you through a process of how to (un)learn when dealing with the complex.

This short course is part of a series across multiple disciplinary fields. Through seven core competencies, the course is designed to help participants better deal with the unknown, the unfamiliar, and with rare or novel events and situations. By learning to open up the alternatives to their toughest challenges through this F.O.C.U.S.E.D. framework, participants will learn better, faster and more than they are used to, and take themselves to the next level!

Staff involved:
Dr Robert Wright
Prof Basak Denizci Guillet
Dr Josephine Csete
Melina Lai
July Rongjiao Zhu
Kubert Tianhang Wang
Bobo Ho Yan To
Nick Tien
Prof Albert Ko (Lingnan University)
Prof James Pounder (Lingnan University)
Prof Daphne Wing-yee Yiu (The Chinese University of Hong Kong)
Prof Chung Chak (Chu Hai College of Higher Education)
Dr Charmaine Chan (Chu Hai College of Higher Education)
Dr Lucia P.S. Fung (Hong Kong Baptist University)
Dr Susanna Y.F. Lo (Hong Kong Baptist University)
Dr Helen, ZHAO Hailin, (The University of Hong Kong)
Dr Muhammad Aamir Khan (Hong Kong Baptist University)
Cherry Choi (Hong Kong Baptist University)
Kori Shuning Liu (The University of Hong Kong)

F.O.C.U.S.E.D

Department of Management and Marketing
Faculty of Business

www.polyu.edu.hk/mooc

Introduction to Urban Geo-Informatics

edX

Use geospatial technologies to explore solutions to environmental issues.

This course looks at how different geospatial technologies can help retrieve the data required to solve urban environmental issues, and how this data then becomes the information used for decision-making. Under the 'Smart City' umbrella, participants explore the fields of Remote Sensing, Geographic Information Systems (GIS), Global Navigation Satellite Systems (GNSS) and Underground Surveying. As well as focusing on current research and trends in Geo-Informatics, the course also dives deeper into the theory behind each of these technologies.

Staff involved:
Dr Man-sing Charles Wong
Prof Wen-zhong Shi
Dr Shuk-ching Lilian Pun
Dr Wai-lok Wallace Lai
Dr Xintao Liu
Dr Xiaolin Zhu
Roy Kam
Prof Michael Batty (University College London)
Prof Michael Frank Goodchild (The University of California)
Prof Mei-po Kwan (The University of Illinois)
Prof Peter M Atkinson (Lancaster University)
Dr James L Garrison (Purdue University)
Prof Tom Iseley (Louisiana Tech University)
Prof C.K. Shum (The Ohio State University)
Prof Yun Zhang (The University of New Brunswick)

@LSGIMOOC

Department of Land Surveying and Geo-Informatics
Faculty of Construction and Environment

www.polyu.edu.hk/mooc

Frailty in Daily Living

edX

> " Frailty is associated with ageing, a trend that is becoming a major concern around the globe. It is not only costly in terms of medical expenses, but it also imposes a financial and emotional burden on family members of older people with the condition. Furthermore, people with frailty are also at increased risk of disease, disability and death. However, it is reversible. Preventing frailty is an important target in the promotion of healthy ageing. I'm proud that this course can help achieve this target. It will also promote your health and that of the people around you. "
>
> – Dr Rick Kwan

Experience the assessment and management of frailty in daily life to achieve healthy ageing.

Designed for members of the public, carers and experienced healthcare professionals, this course helps participants to manage frailty and promote the health of older people around them. Participants don't just gain theoretical knowledge, but they also develop the practical skills needed to assess and monitor frailty, together with effective, elder-centred strategies to combat the condition.
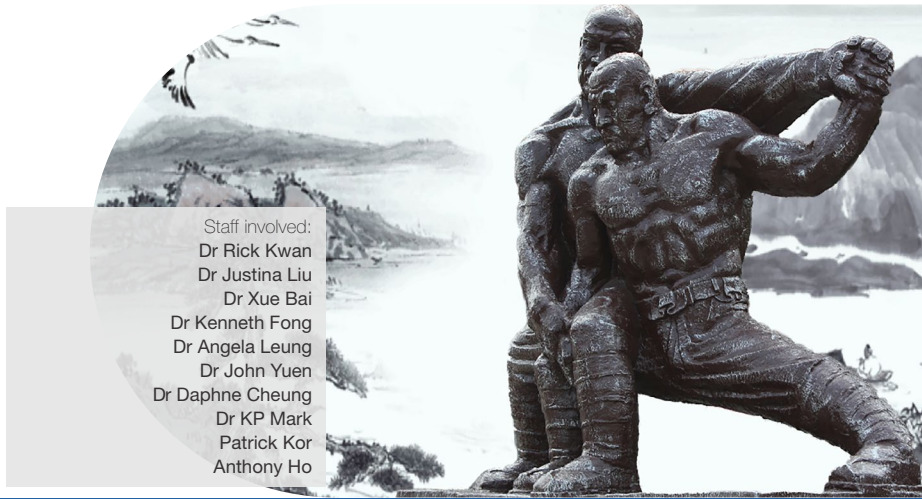
Staff involved:
Dr Rick Kwan
Dr Justina Liu
Dr Xue Bai
Dr Kenneth Fong
Dr Angela Leung
Dr John Yuen
Dr Daphne Cheung
Dr KP Mark
Patrick Kor
Anthony Ho

School of Nursing
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

Interdisciplinary Management of Cardiopulmonary Health and Disease

edX

> " We need a whole interdisciplinary team with different specialties to provide the best care and management for patients. I'm pleased to launch this first MOOC about interdisciplinary management in cardiopulmonary diseases. I'm sure it can give learners more insight into how interdisciplinary teams maintain a balance between clinical and theoretical knowledge for the long-term holistic management of patients with different cardiopulmonary diseases. "
>
> – Dr Shirley Ngai

> " This course is very comprehensive in terms of how patients with cardiopulmonary disease can be helped in different areas. After studying the course, I have a better understanding of the typical emotional changes and social problems experienced by patients and their caregivers. This will help me to communicate better with them, providing effective treatment and education." "
>
> – Course participant

Learn how different healthcare professionals work together to provide holistic management for patients with cardiopulmonary diseases.

Conducted by a team of dedicated healthcare professionals, this course develops participants' knowledge of cardiopulmonary diseases. Using a holistic perspective, it broadens understanding of the patient's journey, from the emergence of symptoms to diagnosis and assessment and, finally, disease management, including psychological intervention to address the needs of patients and caregivers.

Staff involved:
Dr Shirley Ngai
Prof Benjamin Yee
Dr Benson Lau
Dr Alex Cheung
Dr Herman Lo
Bobby Shiu
Melody Poon
Pamela Chan
Raymond Lo
Dr Chao-Ying Chen (Chang Gung University, Taiwan)

Department of Rehabilitation Sciences
Department of Health Technology and Informatics
Department of Applied Social Sciences
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

Shared Decision Making and Interprofessional Collaboration in Healthcare

edX

> I'm proud to have launched the first MOOC on shared decision making and interprofessional collaboration in healthcare. I feel it will inspire learners entering the health profession and empower them to make better recommendations to meet the challenges of dynamic provider-patient relationships, improving the quality of care and health outcomes.
>
> – Dr Kitty Chan
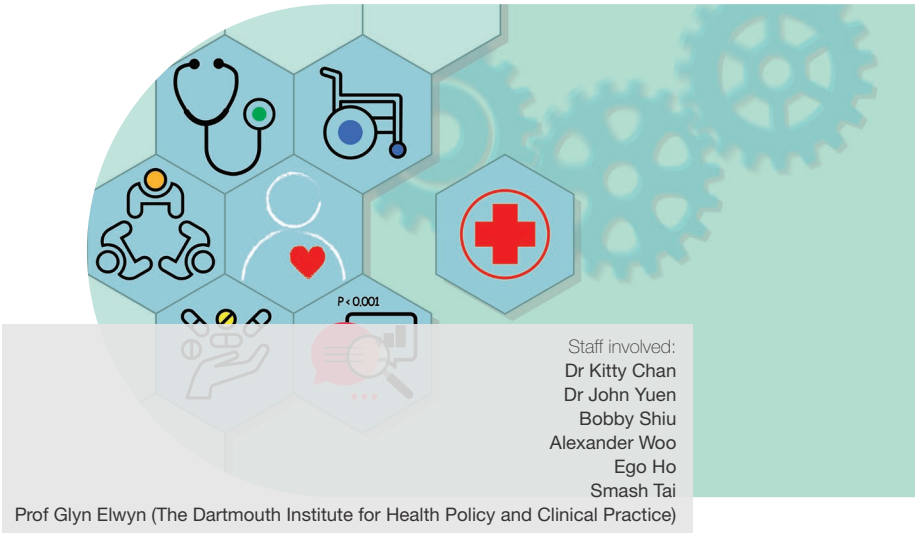
> This course is designed to include lots of hands-on activities and practical knowledge that learners can apply to their daily lives. The 3D eye model and animations enhance the experience of learning about eye anatomy and disease. Discussion forums, peer-assessed tasks and live sessions have been a great way for learners to engage with each other. I've been delighted to see the creative ideas shared by learners from all over the globe!
>
> – Dr Jessica Neuville

How We See the World: Visual Function and Eye Health

edX

Build a community to share and collaborate in the pursuit of better healthcare practice.

This course explores how healthcare professionals collaborate and how patients can participate in making decisions on treatment. Through a docudrama depicting a case of stroke, and engaging interviews with renowned experts in a wide variety of healthcare fields, participants discover ways to achieve optimal clinical practice and health outcomes.

Develop your understanding of vision and discover how visual functions relate to your daily life. Learn and apply techniques to help you take better care of your eyes.

How do we see the world? How do we see details at different viewing distances? How do we see in three dimensions? How do we see colour? How can we avoid getting cataracts or prevent short-sightedness? This course answers all these questions and more, helping participants develop their understanding of vision, how visual functions relate to their daily lives, and how they can better take care of their eyes.

P < 0.001

Staff involved:
Dr Kitty Chan
Dr John Yuen
Bobby Shiu
Alexander Woo
Ego Ho
Smash Tai
Prof Glyn Elwyn (The Dartmouth Institute for Health Policy and Clinical Practice)

Staff involved:
Dr Patrick Ting
Dr Jessica Neuville
Dave Gatrell
Kong Chau

#IPMOOC

School of Nursing / Department of Rehabilitation Sciences /
Department of Health Technology and Informatics / School of Optometry
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

School of Optometry
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

English@Work: Basic Job Interview Skills

edX

Build a solid foundation to succeed in job interviews and get that ultimate call.

Based on advice and insights from accomplished professionals in the business, HR and academic field, this course changes the way participants prepare for and perform in job interviews. Through video interviews, engaging activities and feedback, it enables them to stand out from the crowd, avoid common mistakes, highlight soft and hard skills, and structure impressive answers that help them land the job.

> " I feel the course is very dynamic and well organised. The activities are useful and challenging; they are designed to help learners recall what they have learned throughout the previous learning sequence. "
>
> – Adam Forrester

> " This is a really useful course. I learned so much from watching the example interviews and the tips from the industry professionals. I strongly recommend the course for anyone looking for their first job or considering moving jobs. "
>
> – Course participant

Staff involved:
Adam Forrester
Jessica Xia
Ryan Hunter
Kawai Wong
Bee Dy (The Hong Kong University of Science and Technology)

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

English@Work: Advanced Job Interview Skills

edX

Tell your story so well interviewers can't ignore you!

Once participants have grasped the foundation of interview success by completing English@Work: Basic Job Interview Skills, this course will help them meet the next challenge: persuade others to believe that they are as good as they say they are. Participants learn how to do this by preparing precise, persuasive answers to challenging questions, using verbal and non-verbal skills to impress interviewers, and performing professionally throughout.

> " We decided to build the course content around interviews with industry professionals and recruiters to reinforce the relevancy and real-world applicability of the input from the course. From a teacher's point of view, the activities and assessments developed not only facilitate online independent learning but also support in-class discussion and activities. "
>
> – Ryan Hunter

> " The information is very up-to-date, and from what I have seen they actually consult real professionals in the field when developing their materials. Needless to say, these are excellent! "
>
> – Course participant

Staff involved:
Adam Forrester
Jessica Xia
Ryan Hunter
Kawai Wong
Bee Dy (The Hong Kong University of Science and Technology)

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

English@Work: Cover Letters

> Learners will definitely be inspired by the interviews with industry professionals. Through enaging learning sequences, participants will be able to reflect on what they learned and improve the content, structure and language of their cover letters.
>
> – Bee Dy

> I think the assessments were really useful because they helped me to learn more about myself and how to present my knowledge in writing.
>
> – Course participant

Create a compelling cover letter and get that interview invite.

This course helps participants create application letters that effectively complement a CV. Advice from industry professionals and frontline recruiters helps participants identify what to include and how to structure their application letters. Participants will also understand how to use a wider range of language structures with greater accuracy and adopt the appropriate tone and style.

Staff involved:
Adam Forrester
Jessica Xia
Ryan Hunter
Kawai Wong
Bee Dy (The Hong Kong University of Science and Technology)

ENGLISH@WORK
Cover Letters

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

English@Work: CVs

> Not only will participants understand how to design creative and visually attractive CVs that stand out, improve the content of their CV to increase your chances of being hired, they will also be able to describe their strengths and experience using advanced language features.
>
> – Jessica Xia

> I would definitely want others to experience and learn from such a great compilation of resources.
>
> – Course participant

Be the last they have to read – be the first they want to call!

This course helps participants create clear and creative CVs that stand out. Industry professionals give clear instructions on what to include and what not to include as content, as well as tips on formatting a CV and finding appropriate referees. Through interactive activities and assessments, participants will be able to learn from each other's tips and experiences.

Staff involved:
Adam Forrester
Jessica Xia
Ryan Hunter
Kawai Wong
Bee Dy (The Hong Kong University of Science and Technology)

ENGLISH@WORK
CVs

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Success: Practical Thinking Skills

> As a veteran of over 200 MOOCs I must say that this course is very well organised. The e-book is a really worthwhile resource, not only for this course but also as a reference book beyond the course. It is obvious that a lot of work and effort went into producing this MOOC.
>
> – Course participant

Gain the practical thinking skills for a successful life through a journey to different life and death situations with three famous thinkers and contemporary great minds.

In the latest version of the award-winning MOOC, Life and Death: Mysteries and Meanings, participants discover that a successful life is the fruitful synergy of positive values and powerful thinking skills. This course draws valuable insights from the life stories of Steve Jobs, Bruce Lee, Nick Vujicic and Jack Ma, as well as the visionary accounts of a successful life set out by Aristotle, Kant and Mill.

Staff involved:
Dr Jack Chun
Dr John Yuen
Dr David Wan
Hans Wong
Prof Adrian Bejan (Duke University)
Prof Ole Döring (Freie University)

General Education Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Design Thinking: Theories and Applications

> The best approach to learning Design Thinking, of course, is to practice doing it. However, it's essential to have a good understanding of the theories behind the process. This MOOC will give you a comprehensive understanding of both the theoretical background, and the practical process of practicing design thinking.
>
> – Dr Henry Ma

Demystify design thinking as a process for problem-solving and learn how to use it to solve complex and wicked problems.

Design thinking can help generate innovative solutions and create new opportunities in a variety of organisations and disciplines. It requires us to look at problems from a holistic, human-centred perspective, using a flexible, non-linear approach. This course helps participants demystify the design thinking process and become design thinkers, enabling them to solve complex and wicked problems.

Staff involved:
Dr Henry Ma
Dr Jae-Eun Oh
Dr Yuet Kai Amelie Chan

School of Design

www.polyu.edu.hk/mooc

Service-Learning Pedagogy and Practice

> " Service-Learning has been shown to be a very impactful learning pedagogy that teaches students a wide range of cognitive and affective outcomes, particularly in civic responsibility. It has also been shown, however, that badly-done Service-Learning is counterproductive and can reinforce and entrench stereotypes. It is also known that the learning experience is by far and away the most impactful pedagogical factor in ensuring positive learning outcomes in Service-Learning, hence we developed this course, to help and support our teachers. "
>
> – Dr Grace Ngai and Dr Stephen Chan

Learn how to plan and implement a Service-Learning programme for your teaching context.

This bilingual course introduces teachers to the concept of Service-Learning and equips them with the pedagogical knowledge and skills required for planning and implementing a Service-Learning programme. Suitable for both higher education and secondary school teachers, it draws on examples from experienced teachers, recent academic research, and best practices from experts at PolyU and around the world.

Staff involved:
Dr Grace Ngai
Dr Stephen C.F. Chan
Dr Kam Por Kwan
Prof Daniel Shek

Service-Learning and Leadership Office

www.polyu.edu.hk/mooc

Introduction to University Social Responsibility

> " I really enjoyed being part of the course. It was a real eye-opener. It also helped me to get a different perspective on university engagement that dovetails well with the core tenets of institutions of higher education. "
>
> – Course participant

Lead institution:
Kyoto University
The Hong Kong Polytechnic University
Participating institutions:
Tufts University
The University of New South Wales
The University of Manchester
The University of Pretoria
Simon Fraser University
Staff involved:
Dr Grace Ngai
Prof Robert Hollister (Tufts University)
Prof Marylouise McLaws (The University of New South Wales)
Dr Fernando Palacio (Kyoto University)
Dr Nikan Sadehvandi (Kyoto University)
Dr Julian Skyrme (The University of Manchester)
Dr Martina Jordaan (The University of Pretoria)
Dr Joanne Curry (Simon Fraser University)

Learn about the general framework of University Social Responsibility (USR) and familiarise yourself with some effective practices to design, plan, implement, and evaluate your own USR activities.

This course describes the theoretical underpinnings of USR. It showcases some effective practices and activities carried out in institutions around the world. The course also promotes understanding of the USR concept, its implications, impacts, evaluation, possible implementation methods, and replicability. In doing so, it contributes to the expansion and consolidation of the USR movement. It provides a knowledge base for designing, planning, implementing, and evaluating programs from the fundamentals of USR and some existing good practices.

Kyoto University
Service-Learning and Leadership Office

www.polyu.edu.hk/mooc

Learn to Serve, Serve to Learn: Introduction to Service-Learning

> " The course taught me not to focus on grades too much, but try to learn as much as I could, and this really benefitted me.
>
> – Course participant "

Develop the knowledge, attitudes and skills you need to ensure your Service-Learning project is successful.

What is Service-Learning? How do you learn from Service-Learning? What do you learn from Service-Learning? This course introduces students to the concept of Service-Learning. It equips them with the knowledge, attitudes and skills required for planning and implementing a successful Service-Learning project, and guides them in how best to learn from their experience.

Staff involved:
Dr Grace Ngai
Dr Stephen Chan
Keenan Manning

InfoLit for U

> " Information literacy is far more than just library skills. It's a competence that helps you survive university learning and research and thrive in your future career.
>
> – Johnny Yuen "

> " It's simple to follow and easy to understand. The animations are attractive and engaging. It's good!
>
> – Course participant "

Use information analytically, creatively and wisely to jump-start your university studies.

Spanning eight discipline-specific modules, this QS Reimagine Education Award-nominated MOOC supports Hong Kong students in developing the information literacy skills that are essential to their university learning, research and future career. Featuring the compelling drama series All Gone Well Done, amusing animated scenarios (voice-acted by Eman Lam) and thought-provoking contributions from experienced professionals in each field, this course continues to inspire students throughout the region.

Lead institution:
The Hong Kong Polytechnic University
Participating institutions:
City University of Hong Kong
Hong Kong Baptist University
Lingnan University
The Chinese University of Hong Kong
The Education University of Hong Kong
The Hong Kong University of Science and Technology
The University of Hong Kong

#learninfolit

Service-Learning and Leadership Office

Pao Yue-Kong Library

The Scholarship of Teaching and Learning

> We've offered this course in different arrangements ranging from 100% face-to-face to 100% online, and participants both achieve more and express more satisfaction when using a blended mode – this allows them to meet their classmates in person yet access the learning materials according to their own schedules. I'm particularly pleased by the large proportion of teachers who complete all the required components to receive a certificate of completion.
>
> – Dr Josie Csete

> After the course, I started to think about how I should experiment and evaluate my teaching using a more systematic and objective approach. With this in mind, I have started to design my teaching approach more carefully to effectively assess students' learning.
>
> – Course participant

Learn about the growing field of the Scholarship of Teaching and Learning (SoTL) and how it can benefit you in your career.

Designed for teachers, this flexible course provides an overview of the principles of the Scholarship of Teaching and Learning as well as opportunities for deeper exploration. It offers multiple forms of user control and interaction.

SoTL
Hong Kong 3.0

1 2 3 4 5

Staff involved:
Dr Josie Csete
John Sager

Educational Development Centre

PolyU Exposure Studio Productions: Course B

> This was a very immersive and interesting course with a lot of self-learning. I enjoyed being able to follow my own progress. I now feel I really understand how to put the skills taught into practice.
>
> – Alan Wu,
> Year 2 student,
> Department of Chinese and Bilingual Studies

Staff involved:
Anthony Ho
Cherrie Li
Karl Lau
Kong Chau
Phoebe Yip

Learn the essentials of media editing.

Originally designed as an internal training course for studio crew, ESPB is now open to all PolyU students and teachers for self-enrichment. Participants can start whenever they like, study at their own pace and earn a certificate of completion. Through a blend of short videos, engaging quizzes, and exciting challenges, participants develop the essential media editing skills of video editing, using a non-linear video editor, visual effects and audio processing.

Educational Development Centre

PolyU Exposure Studio Productions: Course A

KEEP Open edX

BOLT: Designing Blended Learning

KEEP Open edX

Learn the essentials of studio production.

Originally designed as an internal training course for studio crew, ESPA is now open to all PolyU students and teachers for self-enrichment. Participants can start whenever they like, study at their own pace and earn a certificate of completion. Through a blend of short videos, engaging quizzes, and exciting challenges, participants develop the essential studio production skills of camera operation, movement, lighting and audio.

Expand your Blended and Online Learning and Teaching toolkit and implement a blended approach with BOLT.

Previously a UGC-funded collaboration between five Hong Kong universities, Blended and Online Learning and Teaching (BOLT) is now an internal PolyU course that increases teachers' knowledge and skills around applying blended and online pedagogies, tools and techniques. In this course, participants design a Learning Innovation Plan to support them in implementing a teaching and learning innovation that harnesses a blended approach.

Staff involved:
Anthony Ho
Cherrie Li
Karl Lau
Kong Chau
Phoebe Yip

BOLT

Staff involved:
Dave Gatrell
David Watson
Dr Laura Zhou
Mag Xu

Educational Development Centre

Educational Development Centre

Upgrading Your Grammar

KEEP Open edX

> This course has enabled my students to become more confident about their written and spoken grammar. The videos and further learning materials in each unit provide lots of clear examples that students can refer to in their own time and at their own pace. Having everything in one place also makes independent learning much easier!
>
> – Caroline Nixon

> My English teacher introduced the online course to us and sometimes we used it in class. It was easy to understand and the online tasks helped me a lot with my assignments.
>
> – Course participant

Get help with the grammar you need to succeed at university level.

This course is designed to help students improve the grammar that they need to successfully complete their university studies. Combining short, informative videos with fun, interactive activities, the course helps students to master the language skills they need to succeed.

Staff involved:
Vivian Li
Caroline Nixon
Chan Man
Adam Forrester

g Upgrading Your Grammar

#UYG

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Serving the Community Through Teaching English

KEEP Open edX

> Our experience teaching ELC2S02 told us that what our students need most during class time is practice and feedback, and that's why we created this SPOC. The discovery questions, video lectures, consolidation activities and preparation tasks are designed to facilitate a meaningful flipped classroom approach.
>
> – Jessica Xia

> I enjoyed using this course for preparation and revision. What I appreciate most is the involvement of students from previous years in the lecture videos. The experience they shared and their demonstrations really helped me a lot.
>
> – Course participant

Serve the community through teaching English.

Developed for the Service-Learning subject ELC2S02: Serving the community through teaching English, this course provides flexible, engaging online lectures which are followed up with in-class discussions and practice. It helps students develop the attitudes, knowledge and skills needed to facilitate an English workshop for service recipients in need of English language support.

SERVING the Community through TEACHING ENGLISH

Staff involved:
Anna Ho
Jessica Xia
Eric Tindall

#ELC2S02

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Read to Know!

> " As English teachers, we enjoy reading, and we enjoy sharing the value and joy of reading. But to be honest, our students may not reciprocate our feelings. We created this course to help students experience how reading can be fun. Not only does it allow students to sample the works of some of the greatest writers, but it also helps build their vocabulary and grammar. "
>
> – Ellen Mok

> " I always wanted to read more but I didn't know where to start and I didn't know which books to read. The Read to Know course gave me a wide range of good options. It not only helped me read for fun but the questions helped me understand the information I should have understood. "
>
> – Course participant

Read more. Improve your reading skills. Know more!

This course features activities based on 20 English books ranging from *59 Seconds* to *Animal Farm*. Students get to read some great books, have fun, improve their reading and overall English language skills and boost their imagination.

Read to Know!

Staff involved:
Ellen Mok
Adam Forrester

#RTK

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Learning4Life

> " We believe that Learning4Life is a great resource for students to improve their independent learning skills. We specifically focused on useful strategies for maximising learning potential, which is beneficial and relevant to students from all subject areas. "
>
> – Michael Dean

> " Each section of the course focused on one area that I had always thought was common sense. However, after completing the activities, I now realise that there are better ways to manage my time and to reflect on my learning. The videos are also really helpful! "
>
> – Course participant

Online self-paced independent learning: Log on, laugh, like and learn!

This course helps students improve their language skills and develop the study skills they need to become independent, life-long learners.

Staff involved:
Michael Dean
Jessica Xia
Adam Forrester
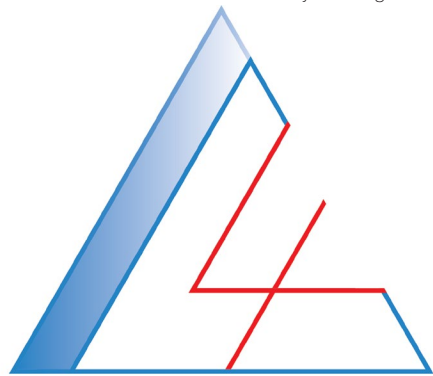
Learning4Life
Log-on, Laugh, Like, Learn

#L4L

English Language Centre
Faculty of Humanities

www.polyu.edu.hk/mooc

Learning English Through Short Stories

> Reading is the perfect way to learn natural English! It's also fun. But students often do not know where to start. The short story, which can be finished in one sitting, is a great choice. These texts provide a rich source of meaningful contexts for learning a wide range of language forms, structures, and writing styles. In LETS, you can see how the use of language contributes to the meaning of the stories, and how it can be employed to achieve certain effects. Our guidelines and activities enable you to gain a fuller and deeper understanding of the texts, develop higher level reading skills, and consequently become a more confident reader.
>
> – Ellen Mok

Increase reading proficiency, develop language and literacy skills, and cultivate an interest in reading!

This course offers a unique blend of reading, English and literature. It consists of ten units. Learners can read a short story in each unit, and complete activities which are designed to develop their reading proficiency, grammar, vocabulary, knowledge of literary concepts and ability to reflect on what they have read.

> It's so amazing to know that a story is more than just a story. There are a lot of messages and techniques used behind every short story, and I think that's very interesting.
>
> – Course participant

Learning English *through* Short Stories

Staff involved:
Ellen Mok
Adam Forrester

#LETS

Academic Skills for Independent Learners

> In our experience teaching EAP courses, we often find that students are unsure about academic style, puzzled over citations, hesitant about essay writing, and extremely wooden when it comes to presentations. That's why we created this course – to boost their all-round confidence levels in academic English.
>
> – Adam Forrester

> I didn't know that university study involved so much academic reading, speaking and most of all writing! This online course is a good way to help me learn. My English teacher sometimes used it in class, but I can also use it myself.
>
> – Course participant

Self-study, practise and improve the academic English you need for your university studies.

Designed for anyone about to embark on a course of study at an English-medium university, this course focuses on developing essential skills in academic English. These include producing essays and reports in an appropriate academic style, using the correct referencing conventions; delivering effective academic presentations; and participating in discussions at university level.

Staff involved:
Adam Forrester
Jessica Xia
Kira Rimrott

ASIL
Academic Skills for Independent Learners

#ASIL

Proyecto ILLSA

KEEP Open edX

" Using the KEEP platform allowed me to pair my intermediate-level Spanish students with other Spanish students in Hong Kong and Europe. It encouraged self-reflection and group discussion, and helped them improve their language skills too.

– Dr Renia Lopez "

Develop your ILLSA (Integrated Language Learning and Social Awareness) in Spanish!

This project helps students to develop their Spanish language skills while exploring the topic of 'Healthy Cities' and the issues experienced by different communities due to COVID. Participants from Hong Kong and Europe work together to research and implement a community project about the city they live in, looking to develop their awareness of COVID-related issues and sustainable cities. They present their work in an e-portfolio.

Staff involved:
Dr Renia Lopez
Vicente Gonzalez Vallejo

Department of English
Faculty of Humanities

www.polyu.edu.hk/mooc

Introduction to European History

KEEP Open edX

" Creating this online course has allowed me to implement a flipped classroom approach. Students are able to prepare in advance of the lessons by covering the material presented in KEEP.

– Dr Renia Lopez "

Explore the history of Europe from a trade perspective.

Pitched at students who may not have any previous knowledge of the subject, this course provides a window into European history through the development of trade. For centuries, trade has played a pivotal role in the history of the continent and has left its imprint on all societies and cultures. This course examines why and how.

Staff involved:
Dr Renia Lopez

Department of English
Faculty of Humanities

www.polyu.edu.hk/mooc

Pain and Symptoms Management

KEEP Open edX

> " I'm proud that this course gets students actively involved in reading and discussing the online materials. It also gives them a chance to work with overseas students to jointly examine the cultural differences in managing pain and symptoms.
>
> – Dr Mimi Tse "

Explore a world of pain and symptoms management with this interdisciplinary, global course.

Spanning the disciplines of nursing and rehabilitation science, this course combines online videos, case studies and interactive quizzes and polls to help broaden students' knowledge of pain and symptoms management.

Staff involved:
Dr Mimi Tse
Dr Veronika Schoeb
Prof Gladys Cheing

Modern Acupuncture in Physiotherapy Practice

KEEP Open edX

> " I'm really proud of the 360° videos we produced for this course. They help students use the correct procedures and positioning and create the right environment.
>
> – Dr Billy So "

Modern acupuncture made easy!

This course introduces students to modern acupuncture theory. Through demonstration videos and real-world scenarios, it equips them with the basic skills of acupuncture.

Staff involved:
Dr Billy So
Yunong Wei
Zevari Hung (The Chinese University of Hong Kong)

School of Nursing
Faculty of Health and Social Sciences

Department of Rehabilitation Sciences
Faculty of Health and Social Sciences

Fit with E-TIP – Exercise Theory, Instruction and Prescription

KEEP Open edX

Collaborate with learners and professors from Hong Kong and Sydney to practise therapeutic exercise prescription and instruction.

This course uses engaging online activities to help students understand and apply theories of therapeutic exercise, prescription and instruction in clinical contexts. It focuses on evidence-based theories of therapeutic exercise and exercise prescription and effective communication during instruction.

> " For me, the most exciting part of this course was getting my students to collaborate with their peers in Australia and learn about new approaches to therapeutic exercise instruction and prescription. "
>
> – Dr Arnold Wong

Fit with E-TIP
Exercise theory, instruction and prescription

Staff involved:
Dr Veronika Schoeb
Dr Roy Cheung
Dr Arnold Wong
Lei Mangubat
Darren Harbutt
Dr Cliffton Chan (The University of Sydney)
Dr Leslie Nicholson (The University of Sydney)

Medical Terminology Proficiency

KEEP Open edX

> " Through this course, we're helping students improve their medical terminology proficiency and supporting them in learning Discipline-Specific Requirement subjects. "
>
> – Dr Josephine Lau

> " I truly appreciate this online course, as I found myself studying anatomy much more easily after knowing word formation rules and their meanings. Thank you very much for providing such useful materials! "
>
> – Ivan Yip, course participant

Improve your medical terminology proficiency and become a more effective learner and healthcare professional.

Medical terminology is the standardised means of communication in all healthcare disciplines. It is used to describe diseases, symptoms, diagnoses, and tests that should be ordered and performed, in addition to special medical and healthcare equipment. This course helps students become more proficient in this terminology, easing their clinical understanding and execution for the patients' benefit.

Staff involved:
Dr Josephine Lau
Dr Kitty Chan
Dr John Yuen
Dr Allen Cheong
Dr William Tsang

Legal Aspects of Human Services

> My students have said the online course materials are really useful and easy to follow. I like the way they can get access to them easily to do revision, anytime and anywhere.
>
> – Beckie Li

Broaden your knowledge of the law as it relates to human service professions.

This course helps students acquire basic legal knowledge that will support them as human service practitioners. It offers an overview of general principles that enable them to understand how the law is applied in their future profession.

Legal Aspects of Human Services

Staff involved:
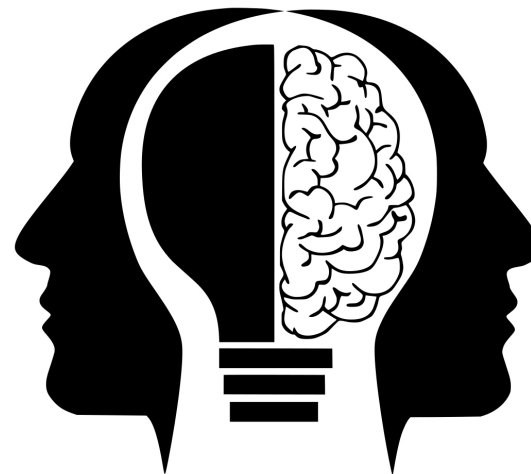Beckie Li
Ella Chow

Introduction to Psychology

> We particularly like how we've used the video series to illustrate key concepts and their applications in both a local and international context. We feel the videos have just the right combination of humour and scientific evidence.
>
> – Introduction to Psychology course team

Discover how psychology has been researched and applied in the Hong Kong context.

This course offers an engaging overview of concepts and applications in psychology, including cognition, development and psychological disorders. Through a home-grown video series and interactive learning activities, students develop their knowledge of the underpinning research and scientific methods and reflect on applications of psychology in daily problem-solving.

Staff involved:
Dr Kevin Chan
Dr Simon Lai
Dr Hildie Leung
Dr Alexandra Sanderson

Department of Applied Social Sciences
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

Department of Applied Social Sciences
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

Intergenerational Learning Experience: Essentials

KEEP Open edX

> " I'm pleased to have been involved in producing a course that has raised awareness of the relationship between young people and older adults. I feel the videos and exercises were successful in demonstrating the key concepts and real-life experience of the intergenerational relationship. "
>
> – Dennis Lee

See things from the perspective of a different generation.

Funded by The Hong Kong Jockey Club Charities Trust and aimed at Hong Kong Form 2 to Form 4 Secondary students, this course has an interdisciplinary focus, covering physical, psychological, social, community, leisure and technology issues. The course uses videos and quizzes to help students explore these topics from the perspectives of older adults and younger generations.

Staff involved:
Dr Alma Au
Dr Simon Lai
Dr Kevin Chan
Dennis Lee

Organisational Learning: Methods and Practices

HKMOOC Open edX / edX Edge

> " I'm proud of this course because it enables the use of a flipped classroom approach, which means students don't just rely on lectures and can learn at their own pace. What's more, the online discussions have facilitated collaborative learning. "
>
> – Prof WB Lee

Discover why and how learning takes place within an organisation.

The course considers why and how an organisation should learn through mastering individual learning and self-reflection. It explores learning theories, action theory, systems and systems thinking, sense making, scenario planning, unlearning, and practices of individual and group learning.

Staff involved:
Prof WB Lee
Lora Liu

Department of Applied Social Sciences
Faculty of Health and Social Sciences

www.polyu.edu.hk/mooc

Department of Industrial and Systems Engineering
Faculty of Engineering

www.polyu.edu.hk/mooc

Business Process Management

❝ Through this course, students can learn about the core concepts of BPM, and see how BPM is applied in practice in an organisation. The videos and interactive exercises really help them understand the interactions between human behaviour and process design.

– Prof Eric Tsui ❞

Learn how to assess the efficiency and effectiveness of business processes to minimise cost and maximise value creation for an organisation.

This course enables students to appraise the importance of structuring and measuring business processes in an organisation. It helps them identify and build processes for various business applications and then apply appropriate measures to assess, report and improve their performance.

Staff involved:
Prof Eric Tsui
Dr Josiah Chan (Telstra Global)

Management and Communication in Information System Development Projects

❝ I'm proud of the animated videos we produced to help students learn about important issues and concepts in project management. I'm also pleased with the way we developed a narrative to illustrate how this can be applied from initiation to completion in a hypothetical IT project.
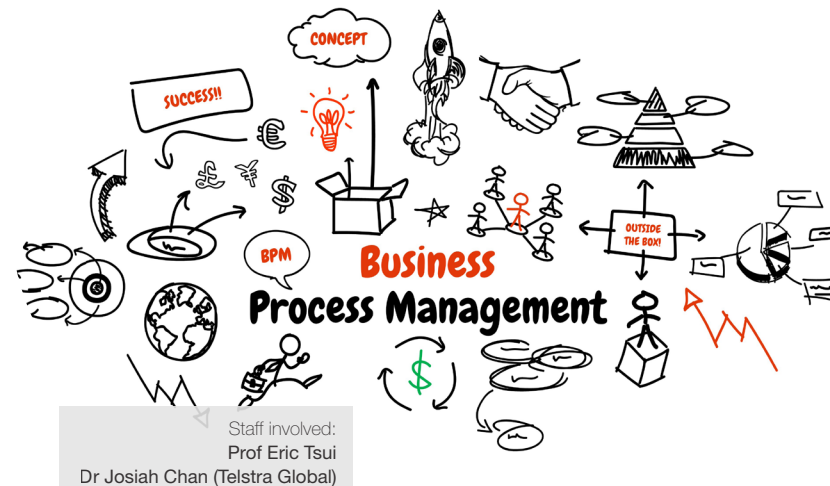
– Dr Richard WC Lui ❞

❝ Interesting animations – very good experience.

– Course participant ❞

Staff involved:
Dr Richard WC Lui
Dr Kris MY Law

Explore the different management issues in the planning and implementation of information system projects.

This course introduces participants to the issues involved in planning and implementing an information system project, including project management, project monitoring and control, and risk management. Participants also explore a project management case study and watch an interview with a project management professional.

Department of Industrial and Systems Engineering
Faculty of Engineering

www.polyu.edu.hk/mooc

Department of Computing
Faculty of Engineering

www.polyu.edu.hk/mooc

Information Security: Audit and Control

" I feel this course takes a genuinely new approach to learning about information systems through the use of video and animation. By providing flexible study options, it's allowed students to make better use of class time. "

– Dr Walter SL Fung

Broaden your horizons in information systems and audit control.

This course recaps different information systems in terms of operation and management. It extends students' horizons into the realm of audit and control aspects of information management and enables them to evaluate the effectiveness of each system.

Staff involved:
Dr Walter SL Fung

Applications of Map Reading and Interpretation

" For me, a map isn't simply a set of graphics to get you from A to B – it's a powerful tool that helps us understand the world we live in. "

– Kent Lam

Staff involved:
Kent Lam

Sharpen your map reading skills and develop a better understanding of your environment.

This course uses real-world examples to teach basic map reading skills on paper and electronic maps. Through engaging videos and interactive content, it helps students better understand and visualise the information presented on maps and use a compass for orientation and navigation.

Department of Computing
Faculty of Engineering

Department of Land Surveying and Geo-Informatics
Faculty of Construction and Environment

Design of Concrete Structures

> " The course helped us to organise the laboratory sessions in a highly efficient manner and enabled students to achieve the learning objectives, thanks to the additional learning opportunities afforded by human-computer online interaction.
>
> – Prof Jian-Guo Dai "

Discover the underlying principles of testing procedures for designing reinforced concrete structures.

Through engaging videos, interactive quizzes and recommended reading, this course helps explain the underlying principles and concepts that underpin the laboratory testing procedures in the design of reinforced concrete structures.

Staff involved:
Prof Jian-Guo Dai
Dr You Dong
Zilong Liang
Zhihang Xue
Lanping Qian
Dong Guo
Kaidi Peng

Fluid Mechanics

> " I'm pleased that this course supports a flipped classroom approach, enabling students to acquire a better understanding of lecture content before coming to class.
>
> – Prof Shiu-keung Tang "

Learn the fundamentals in fluid mechanics and how to analyse and evaluate fluid flow problems in building.

This course covers the fundamentals in fluid mechanics, and develops the skills needed to analyse and evaluate fluid flow problems related to building applications. Through tutorial videos, students learn how to apply concepts of fluid mechanics in building practices in the real world.

Staff involved:
Prof Shiu-keung Tang
Prof Hong-xing Yang
Roy Kam

Department of Civil and Environmental Engineering
Faculty of Construction and Environment

www.polyu.edu.hk/mooc

Department of Building Services Engineering
Faculty of Construction and Environment

www.polyu.edu.hk/mooc

Integrating BIM and RFID in Industrialised Construction

> " The course is unique and important because it focuses on the industrialised construction process.
>
> – Prof Geoffrey Qiping Shen "

Develop your understanding of the framework and procedures for adopting BIM and RFID.

The goal of this course is to improve standards for integrated design, construction and management of industrial construction services. By providing a learning platform for construction professionals to learn how to adopt Building Information Modelling (BIM) and Radio Frequency Identification (RFID) in their work processes, it aims to facilitate the upgrade of Hong Kong industrial construction services by encouraging and training for early adoption.

香港建造商會
Hong Kong Construction Association

THE HONG KONG POLYTECHNIC UNIVERSITY
香港理工大學

RICS

Professional Services Advancement Support Scheme (PASS)

Integrating BIM & RFID in industrialized Construction
(Improving and exporting Hong Kong Industrialized Construction Services under the Belt & Road Initiative & Integration of Advanced Construction Technologies)

Project Leader: Professor Geoffrey Q.P. Shen

DEPARTMENT OF
BUILDING & REAL ESTATE
建築及房地產學系

(Photo Source: modtechmodular.com, verblueton.com, en.vietnamplus.vn, steelrental.com)

Staff involved:
Prof Geoffrey Qiping Shen

Apparel Technology

> " I'm proud to have put together a comprehensive set of instructional videos and presentations that help students learn how to use a sewing machine and create clothing to their own body size.
>
> – Tanya Dove "

Learn how to pattern cut and sew your very own made-to-measure trousers or skirt.

This course guides students in the technical processes of creating skirts and trousers. It covers all the complexities of garment construction, from collating measurements and creating apparel patterns to making finished samples that fit a specific body shape and size.

APPAREL TECHNOLOGY

Staff involved:
Tanya Dove
Dr Kristina Shin

Department of Building and Real Estate
Faculty of Construction and Environment

www.polyu.edu.hk/mooc

Institute of Textiles and Clothing
Faculty of Applied Science and Textiles

www.polyu.edu.hk/mooc

Remote Lab

Pre-Calculus and Descriptive Statistics

Use real-time video monitoring to visualise physics experiments 'in action'.

On this course, participants run experiments and generate results from an online Remote Lab. Using real-time video monitoring in a visual learning environment, participants get to explore areas such as interference and diffraction of light, radioactivity, and the Earth's magnetic field.

RemoteLab
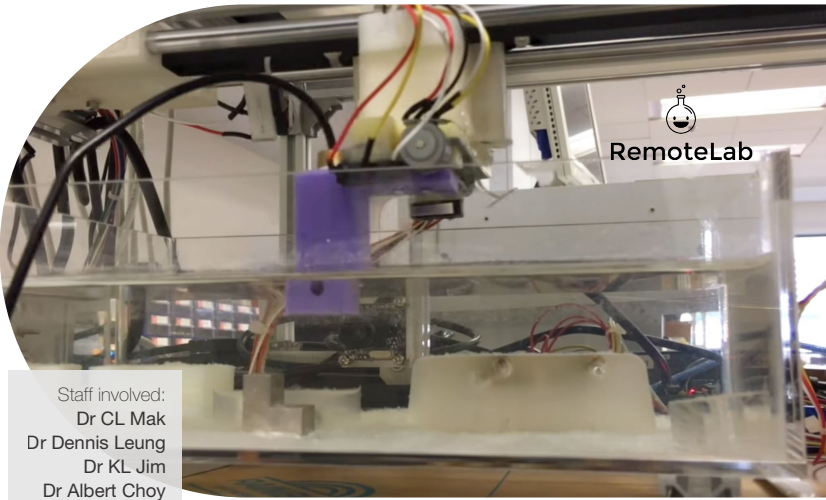
Staff involved:
Dr CL Mak
Dr Dennis Leung
Dr KL Jim
Dr Albert Choy

Develop the prerequisite skills for taking a university-level mathematics course.

This is a preparatory and supplementary course for students intending to take AMA 1110: Basic Mathematics 1 who do not have M1 or M2. Through engaging Khan-style video lectures featuring augmented reality lecture notes, it helps students grasp the fundamental concepts required to learn calculus, probability and statistics. Students who have failed AMA1110 are also encouraged to take the course to increase their chances of passing next time around.

Staff involved:
Dr Fridolin Ting
Dr Raymond Sze
Dr Yijun Lou
Dr Xin Guo
Dr Zhang Hua
Dr Charles Lee
Frankie SL Tsoi
Carter Wai Hung Lam

Department of Applied Physics
Faculty of Applied Science and Textiles

Department of Applied Mathematics
Faculty of Applied Science and Textiles

Courses on edX

MicroMasters® Programme: International Hospitality Management

- Managing Human Resources in the Hospitality and Tourism Industry
- Managing Marketing in the Hospitality and Tourism Industry
- Hospitality and Tourism Technology and Innovation
- Luxury Management

Professional Certificate: Fashion Design and Creation

- Designing and Creating Skirts
- Designing and Creating Trousers

Professional Certificate: Business Excellence in a Knowledge-Driven Industry 4.0 World

- Knowledge Management and Big Data in Business
- Industry 4.0: How to Revolutionise Your Business

Professional Certificate: Introduction to Stroke Care

- Human Anatomy for Stroke
- Science of Stroke Recovery

XSeries Programme in Chinese Culture: Tradition, Transformation and Interaction

- Chinese Culture: Tradition
- Chinese Culture: Transformation
- Chinese Culture: Interaction

Design Thinking: Theories and Applications
English@Work: Basic Job Interview Skills
English@Work: Advanced Job Interview Skills
English@Work: Cover Letters
English@Work: CVs
Frailty in Daily Living
Future Trends of Fashion and Textiles
How We See the World: Visual Function and Eye Health
Interdisciplinary Management of Cardiopulmonary Health and Disease
Introduction to University Social Responsibility
Introduction to Urban Geo-Informatics
Operations Research: An Active Learning Approach
Service-Learning Pedagogy and Practice
Shared Decision Making and Interprofessional Collaboration in Healthcare
Staying F.O.C.U.S.E.D. in a Complicated World: Business Discipline
Success: Practical Thinking Skills

Courses on other platforms

Academic Skills for Independent Learners
Apparel Technology
Applications of Map Reading and Interpretation
BOLT: Designing Blended Learning
Business Process Management
Design of Concrete Structures
Fit with E-TIP – Exercise Theory, Instruction and Prescription
Fluid Mechanics
InfoLit for U
Information Security: Audit and Control
Integrating BIM and RFID in Industrialised Construction
Intergenerational Learning Experience: Essentials
Introduction to European History
Introduction to Psychology
Learn to Serve, Serve to Learn: Introduction to Service-Learning
Learning English Through Short Stories
Learning4Life
Legal Aspects of Human Services
Management and Communication in Information System Development Projects
Medical Terminology Proficiency
Modern Acupuncture in Physiotherapy Practice
Organisational Learning: Methods and Practice
Pain and Symptoms Management
PolyU Exposure Studio Productions: Course A
PolyU Exposure Studio Productions: Course B
Pre-Calculus and Descriptive Statistics
Proyecto ILLSA
Read to Know!
Remote Lab
The Scholarship of Teaching and Learning
Serving the Community Through Teaching English
Upgrading Your Grammar