


Enhancing Information Literacy via MOOC and Library's i-Space

Shirley Wong, University Librarian
Ivan Chan, Associate Librarian
The Hong Kong Polytechnic University


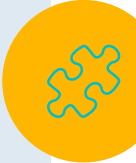
What is Information?

- Text
- Sound
- Images
- Videos
- Data
- 3D
- Virtual Reality (VR)
- Mixed Reality (MR)
- Community
- ...



What is Information Literacy?

Experience of using information to learn via a reflection process enables the transfer of the learning process to new contexts, thus, facilitating student-centered inquiry-based pedagogies and lifelong learning (Bruce, 2008).



InfoLit for U



**Using information analytically,
creatively & wisely to learn**

A self-paced MOOC



InfoLit for U





2014

2015

2015

2016

2016

2017

2017



Funded by the UGC

Project funded under the UGC's Funding Scheme for Teaching and Learning Related Initiatives.

Librarian Capacity Building Programme

Organised and hosted by the HKUST Library.

Course Enhancement Funds

Five HK\$15,000 funds at each university available for faculty staff to apply.



Proposal Writing

Rounds and rounds of meetings at the JULAC Learning Strategies Committee.



IL Educational Needs Study

Qualitative study on IL needs of students. 12 students studying a specific domain at each university.



RRSA-HK Survey Study

Research Readiness Self-Assessment Tool Hong Kong. 200 undergrads at each university. Coordinated by HKBU and LU Library.



IL MOOC Soft Launch

Soft launch of the InfoLit for U MOOC for testing and review in the 3rd season of 2017.

InfoLit for U

A self-paced MOOC

Focal Module:



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

8 Discipline Modules:

Arts & Humanities



Business & Economics



Education



Engineering



Law



Health Sciences



Science



Social Sciences



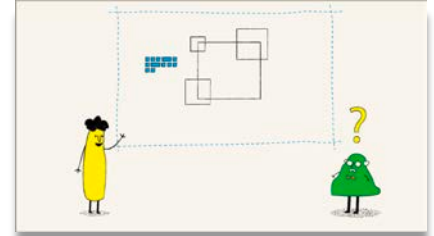


Focal Module



Focal module: An inquiry experience

- Think & plan the "info needs" of your research
- Don't find answers: Search for ideas to develop ideas
- Not just filter: Evaluate ideas to form new ideas
- Never list them: Connect ideas to create your own idea
- Stay hungry: Join & learn from communities



Discipline modules: Disciplinary task scenarios

Arts & Humanities



Business & Economics



Education



Engineering



Law



Social Sciences



Health Sciences



Science



- Find discipline/task information
- Evaluate discipline/task information
- Create task outputs



Professionals' information experience sharing





Two modes of learning

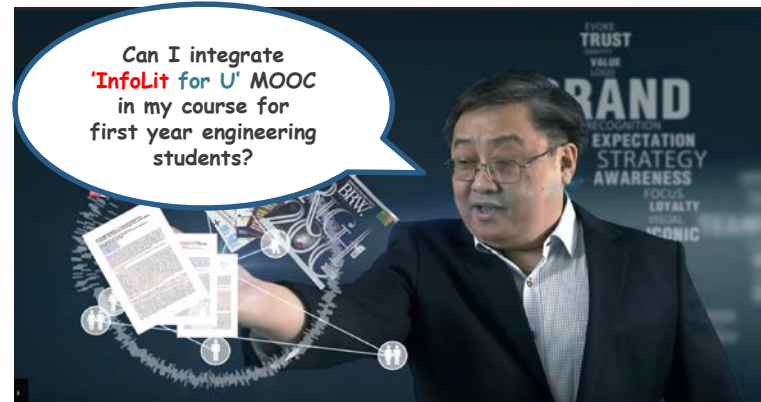
Self-paced:

- Focal + 8 discipline modules
- 1.5 - 2 hours per module
- Visit MOOC from time-to-time

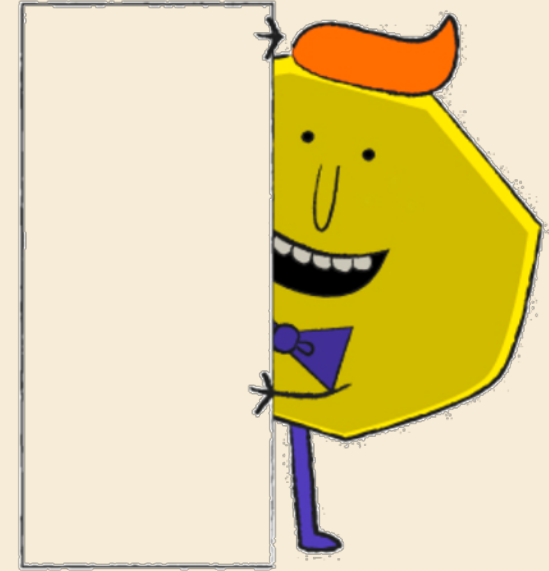


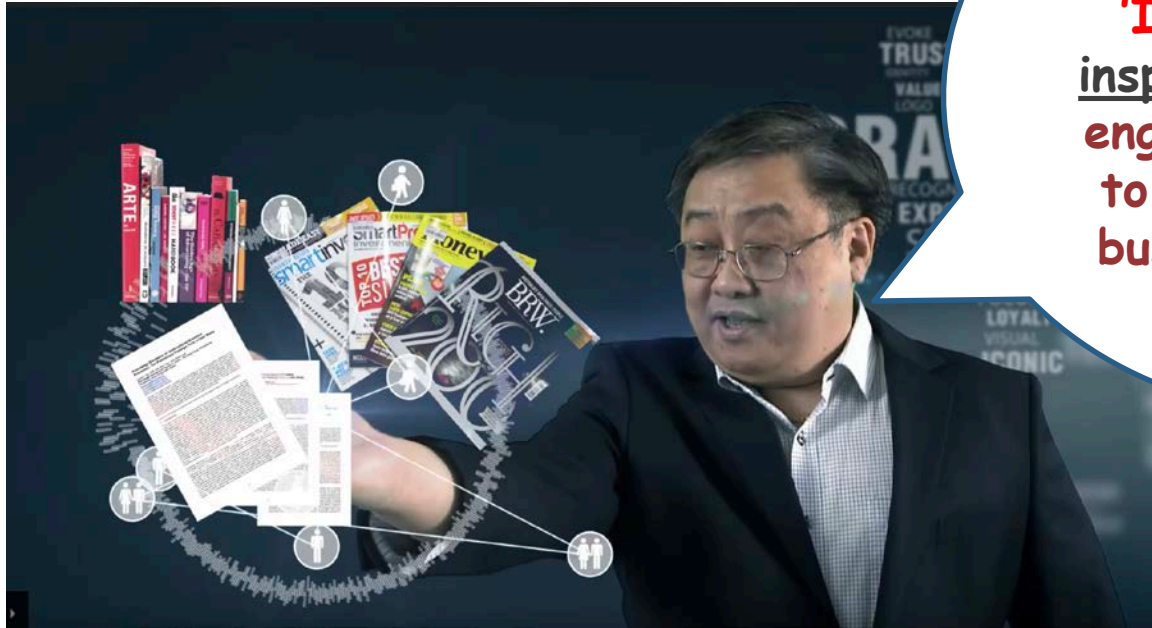
Course/subject-integrated:

- Sections or pages selected by course instructor
- As assigned activities or embedded into LMS



How to integrate InfoLit for U into courses?



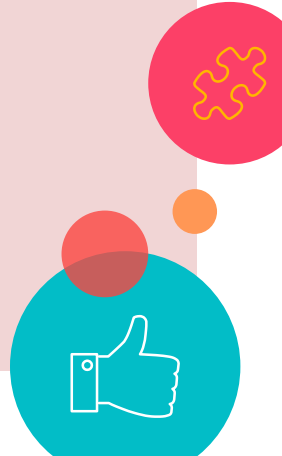
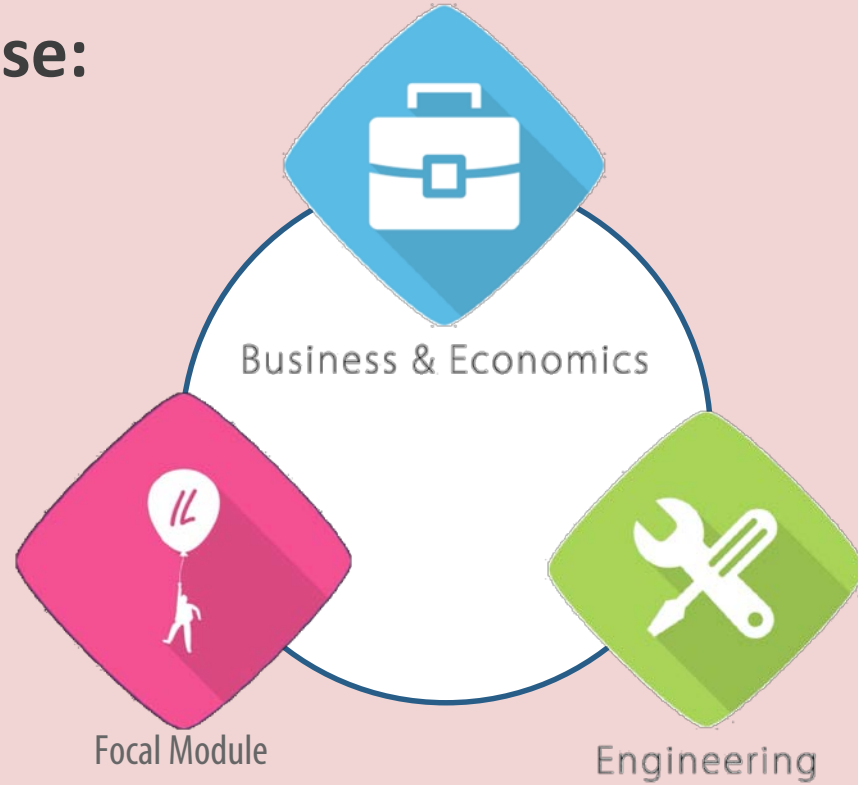


Hey Shirley,
how can I use
'InfoLit for U' to
inspire my first year
engineering students
to write successful
business proposals?

Image captured from the promotional video of Prof. Eric Tsui's very successful edX MOOC (over 40,000 learners worldwide!): [Knowledge Management and Big Data in Business](#)



Our Response:







Business & Economics

Content provider:



International partner:



2. Go through sections in the business module

A screenshot of a course page. At the top is a navigation bar with a 'Previous' button, a series of icons for different content types (document, grid, pencil, etc.), and a 'Next' button. Below the navigation bar is the section title '2.B.1 Finding information to fulfill business needs' with a 'Bookmark this page' link. The main content area features a yellow circular icon with a 'P' and the section title 'Section 2 - Finding information to fulfill business needs'. To the right of the title is a yellow 'Duration' label. Below the title is an illustration of a woman in a yellow dress holding a pointer. To the right of the illustration is the text 'Estimated completion time: 1.5 hours'. Below this is a paragraph of text: 'Pinpointing the right information to kick-start business research can be a real challenge, especially if you are not sure what kind of information is available, and how to identify the best search tools to find them.' Below the paragraph is another paragraph: 'In this section, you will learn tips and tricks for finding key business information. You will meet a group of students who are learning how to create a business plan for a city-wide competition, and learn alongside them.'



3. Experience the role of information in different parts of a proposal, where to find them, and so on


Business & Economics

Activity - Choose the Right Source

Remember Christina? She promised to create a table summarising the business plan for her teammates. She's almost finished. Help her complete the table below.

1 point possible (ungraded)

Scroll to the bottom and drag the information sources into the appropriate boxes (1 to 6) in the last column of the table.

Section	Purpose	Information required	Information source
Executive summary	<ul style="list-style-type: none"> Provide an overview of the business plan that captures the attention of investors and motivates them to read on. 	—	—
The business	<ul style="list-style-type: none"> Tell investors who you are, what products or services you provide, and describe in detail the goals and objectives of your business. 	—	—
Market demand & industry analysis	<ul style="list-style-type: none"> Identify your target customers and what drives them to buy the products. 	<ul style="list-style-type: none"> Demographic data, spending patterns and attitudes of the target customer. 	1
	<ul style="list-style-type: none"> Analyze the market demand and its forecast growth. Present the competitive landscape of the industry. 	<ul style="list-style-type: none"> Current and forecast data of sales volume & value. Profiles of key players and their market shares. Analysis of industry trends, 	2





4. Learn from real professionals' experience, tasks, games, etc.

Business & Economics

Q2. What major challenges does Margaret face when gathering information in developing countries?

1 point possible (ungraded)

Check all that apply.

- 1. Company data and information might be minimal. Data transparency is an issue.
- 2. Different accounting standards across countries make a comparison difficult.
- 3. Company representatives and analysts are readily available to clarify the issues.

My name is Margaret Wong I am the global lodging and Asia gaming analyst with Bloomberg intelligence so the role in itself we basically do industry and company research analysis when it comes down to driving industry thematic research we obviously look at the tiny bits of indicative data points that we have that we track actually on a regular basis that builds up a theme so from there that's a start and then from there we then also take a look at what's happening in the news you know is there something event-driven that we may

Q1. Which person is the most likely to make the following comment?

Please drag and drop the boxes to match the commentator with the comment.

1. "Regarding political data, we clearly believe international research is crucial. But the data is accurate and comprehensive and consistent."

2. "I regard the official statistics from government websites as credible. Hence, I can count on the data to kick start the project."

3. "In lack of data transparency in emerging markets, reliance on the data with the services provider makes the work."

Tommy Lau
First year student
Business College

Tracy Srey
Statistician
Bureau of Economic Analysis

Amy White
Research Analyst
of Management Consultancy

Q2. Answer the following questions by referring to the four imaginary journal articles below:

Article A	Article B	Article C	Article D
Wang, W. (2006). Breakthrough of human cloning. <i>Science</i> , 31, 213-306.	Smith, A. (2010). Market efficiency in China. <i>Journal of Finance</i> , 84(2), 199-229.	White B. (2010). Nanotechnology and future. <i>Advanced Materials</i> , 17(1), 12-24.	Bryan, M. (2017). Market inefficiency in China. <i>Journal of Economics</i> , 56(3), 17-30.
Times cited: 400	Times cited: 50	Times cited: 50	Times cited: 0



Engineering



Content provider:



5. Don't forget professional, reliable, & authoritative engineering information sources

▼ Discipline Module: InfoLit in Engineering

▼ Finding information for engineering assignment

1. 2.EN.1 Finding information for your engineering assignment
2. 2.EN.2 What are information resources?
3. 2.EN.3 Who creates and disseminates engineering information?
 
4. 2.EN.4 Quality search tools for finding quality information
5. 2.EN.5 Research strategy Vs Research technique
6. 2.EN.6 Innovation engineering assignment

Professional

Beyond Google

In-depth engineering resources

Engineering Information Sources: The Basis of the Profession



bsi.

Organize local or international conferences with presentations, posters and keynotes to provide a forum for professional engineers & researchers to share knowledge & innovations.

T.E.A.M
W.O.R.K
TOGETHER
YOU CAN DO IT

Links and Resources

Explore the homepage of these professional engineering associations.

- Learn about what they do (especially events & publications).
- Try to identify at least one related to your area.
- Consider joining a student member.

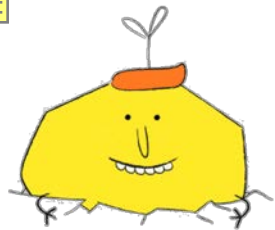
[HKIE \(Hong Kong Institute of Engineers\)](#)

[IET \(Institute of Engineering and Technology\)](#)

[ABET \(Accreditation Board for Engineering and Technology\)](#)

[Engineers Australia](#)

 YouTube



Summary

- When developing students' information literacy, one should never limit the scope to information procedures or skills.
- Students should be facilitated to become **conscious information users**, who aptly decide what's best to do under different contexts & circumstances.
- **InfoLit for U** MOOC offers unique & customizable information experience to facilitate students' information literacy development.

Enroll now!

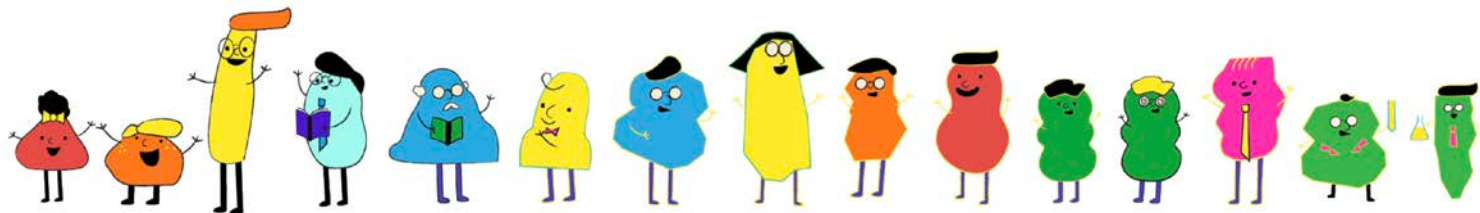
1. Go to <http://keep.edu.hk>
2. Search **InfoLit for U**
3. Enroll !



: InfoLit_4U



: Infolit for u





Vision of The Hong Kong Polytechnic University Library :

Library as the scholarly gateway and the university learning hub

包玉剛圖書館 THE UNIVERSITY LEARNING HUB
PAO YUE-KONG LIBRARY



2016-17 Entrance:
2,908,732

In peak time:
19,000 a day



E-preferred Collection Development Policy



Digital information accessible anytime anywhere

THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

PAO YUE-KONG LIBRARY
Day's hours
08:30 - 23:00
All floors

FIND RESEARCH SUPPORT TEACHING & LEARNING USING THE LIBRARY USER PRIVILEGES HELP ABOUT US SITE SEARCH

In 2016/17:

OneSearch

All

Books & M

Course Readings / Guides

Search for library resources and online

OneSearch | The Hong Kong

6.2 million
e-journal downloads

3.5 million
e-book accesses

15 million
accesses to library website
& catalogue

52 million
remote online accesses to
library acquired resources

1.6 million
items viewed in PolyU Institutional
Research Archive (PIRA)

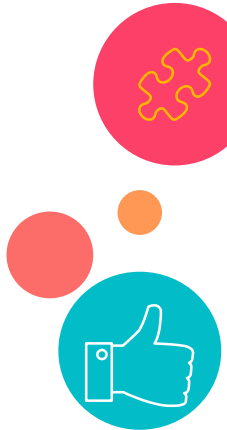
3.7 million
accesses to in-house
developed databases





Zoning by Users' Information Literacy Learning Needs

- i-Space
- Group Study Zone
- Individual Quiet Study Zone
- Service Point and Display Zone



i-Space

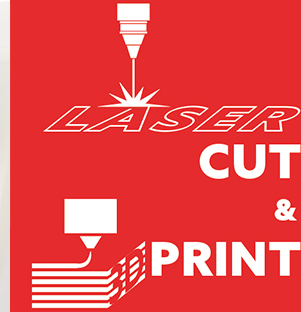
facilities

We offer entry-level emerging technologies to encourage students to get hands-on learning experience & social interaction in communities of shared interests.

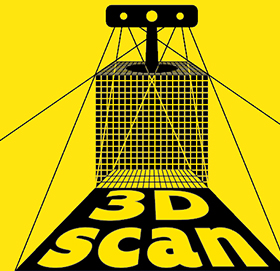
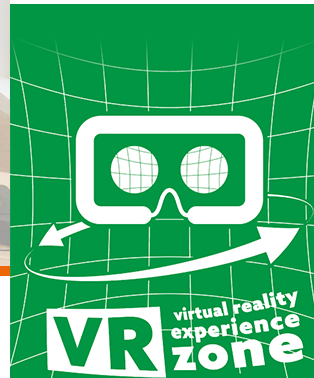
Come check it out!

<https://booking.lib.polyu.edu.hk/Printing/Login.aspx>

Book now!



Internet of Things corner IOT





i-Space set up in Oct 2017

Before summer 2017



Now





Ideation Zone: White boards and LEDs to facilitate and idea sharing

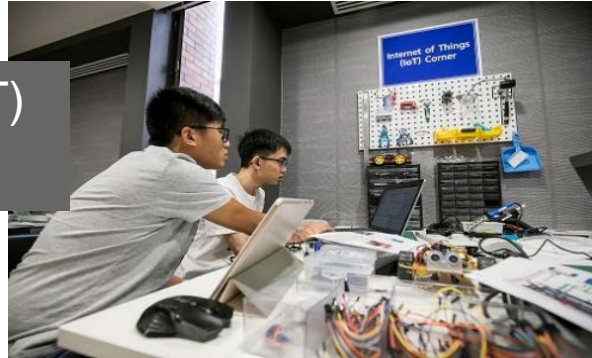
Inspiration Zone: 5000 design & makerspace books





Implementation Zone

[Internet of Things (IoT) devices]

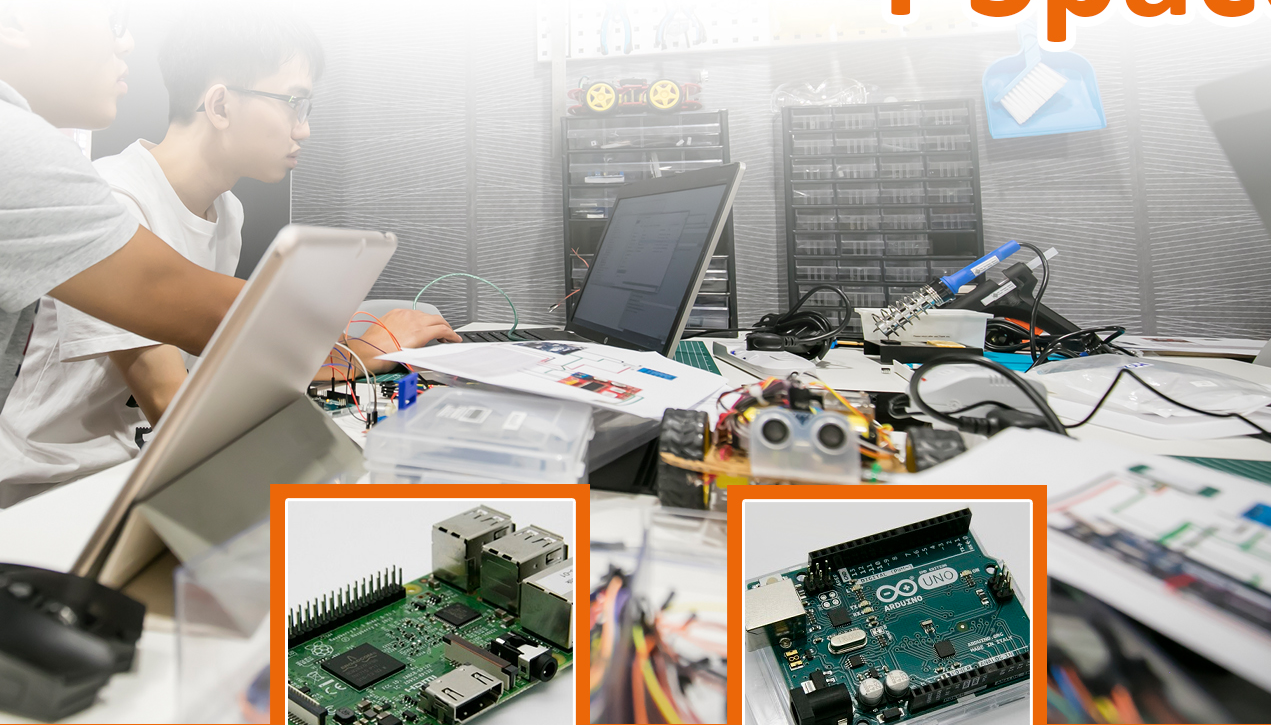


Virtual Reality Experience Zone



i-Space

facilities



Raspberry Pi 3



Arduino Uno



Internet of Things
corner **IOT**

i-Space *facilities*



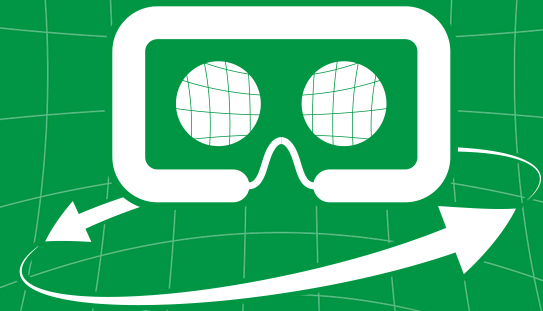
HTC Vive



Google
Cardboard



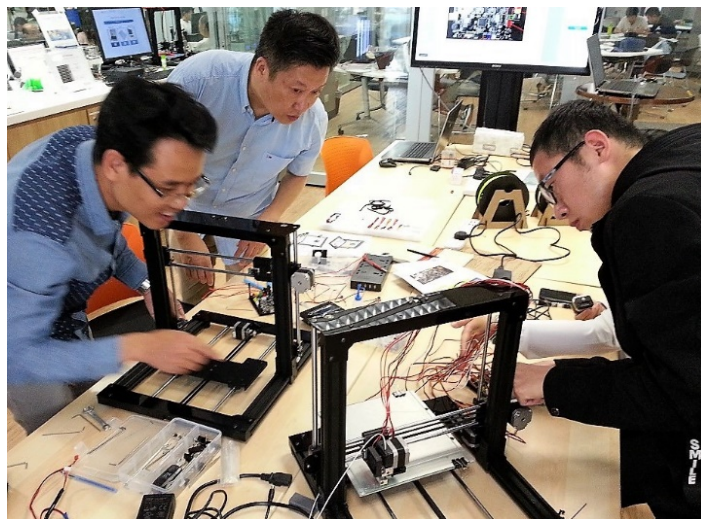
Samsung Gear
360 Camera



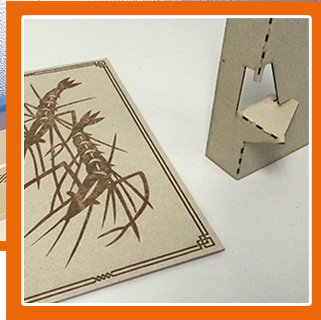
VR virtual reality
experience
zone



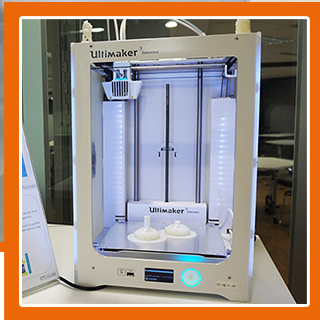
Implementing ideas with laser cutter, 3D printer and 3D scanner



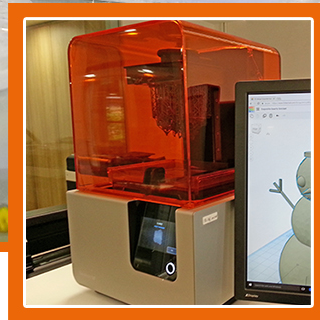
i-Space *facilities*



i-Space *facilities*



FDM printer



SLA printer



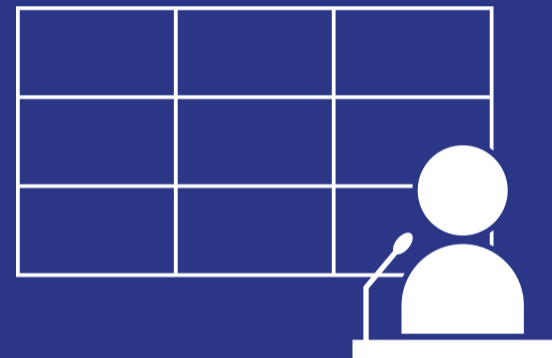
i-Space

facilities



Video Wall

有9個設備輸入的視頻牆
A video wall with 9 device inputs



**Digital
Visualisation
Room**

Video Conference Camera for small group



Available for loan
@MC Counter



Colour Plotter
(printable width up to 60 inches)



Colour Plotter
(printable width up to 42 inches)



Self-service for laptop and
iPad/iPadPro computers loan

Workstations with AV & Image editing software, data analysis & visualization software



i-Space *help*



Technical Support Desk



Technical Support Desk

i-Space *events*



Workshops

ALL POLYU STUDENTS ARE WELCOME TO JOIN!

Workshop 1 **Make Your Own ID Tag An Introduction to Laser Cutting & Engraving**

How would you like to create a wooden identification tag, using a personal motto & photo of yourself?

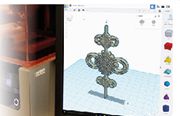
This workshop will give you the opportunity to use a laser cutter to create your own ID tag on a wooden board.



Workshop 2 **From Idea to Model An Introduction to 3D Modelling**

How do you turn an idea into a 3D object? First, you have to create a 3D model!

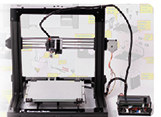
Come to the Library to learn how to turn a 2D sketch into a 3D model using free modeling tools such as TinkerCAD & Blender.



Workshop 3 **Create 3D Printer From Scratch: An Introduction to Open Source 3D Printer Assembling**

Building an open source Fused Deposition Modelling (FDM) 3D printer is not difficult at all!

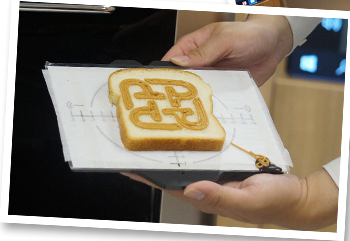
This workshop will give you an opportunity to make a FDM 3D printer from zero.



Venue Digital Makerspace, 4/F North Wing, Pao Yue-kong Library

More information | <http://libguides.lib.polyu.edu.hk/i-Space/workshops>

i-Space *events*



Open House

Introduction of 3D Food Printing & Demo

Come witness how technology changes the way food is served & presented – on bread! This talk is made possible with the collaboration with HKT Education.



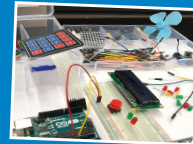
FDM 3D Printing Demo

Fused Deposition Modelling (FDM) technology is the most common 3D printing method these days. Come to find out more & learn more about what you can do with 3D printing.



Internet of Things (IoT) Demo

From smartphones to the sensors on the roads, IoT has impacted our lives much more than we realized. Come to find out how to connect a network of physical devices to build a smart electric fan.



Workshops & Events



Library's work by laser cutter and IoT





2015



Multimedia Commons of i-Space



2015



i-Space

facilities



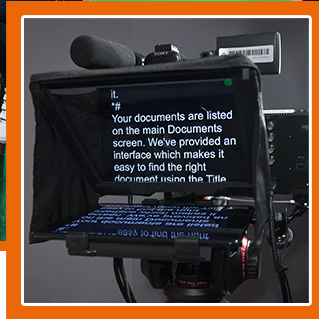
Digital Studio



4k Camcorder



Chroma Key
Backdrop



Teleprompter

- 4K video camcorder
- Professional LED and fluorescent lighting system
- Teleprompter for script display
- Wireless microphone system (omnidirectional pick-up pattern) for good quality sound reception
- Seamless chroma key green backdrop
- Solid color and velvet curtains backdrop
- LCD TV on movable stand for PowerPoint display



Video: Welcome to the Library's new i-Space!



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學

包玉剛圖書館 THE UNIVERSITY LEARNING HUB
PAO YUE-KONG LIBRARY

the learning hub of The Hong Kong Polytechnic University.



Thank you!

謝謝!

Email 電郵:
shirley.cw.wong@polyu.edu.hk

