

Authentic Learning--- A Kind of Real Learning Experience!!

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Lecturer I

SSC

Teaching Awardees' Sharing Seminar (2)

25th March 2019

11:00a.m. – 11:40a.m.

D2-LP-04



In education, authentic learning

- is *an instructional approach* that allows students to *construct their own knowledge* in ***real-world environments***
- refers to a "*wide variety of pedagogies* which *involve* ***real-world issues, problems, and applications.....***
- helps students to *prepare themselves better in college, careers, and adulthood* because they are ***learning mirrors real-life contexts***, equips them with *practical skills*, and *addresses topics* that are relevant and *applicable to their lives outside of school*

Related terminologies

- Experiential Learning
- Outside-classroom Learning

Common Features/Elements

- **Outside formal** learning venues (classrooms, lecture rooms.....)
- Hands-on **Experience** (see, hear, touch and feel.....)
- **Student-centred** (various level of exploration.....)
- Involve **parties other than teachers/lecturers** (speakers, guides, facilitators.....)
- Require **learners' reflection**.....

Authentic Learning in Eduhk



- *Project-based learning (Honours Projects, Group Projects.....)*
- *Set up a stall in flea market (Entrepreneurship education....)*
- *Internship (3 –6 months)*
- *Job Shadowing (1 –2 days)*
- *Block Practice/Field Experience (BEd and PGDE)*



Two other types of authentic learning in my courses every year.....What are they??

- *SSC 1189 Introduction to Economics*
- *IBS 1124 Business Environment in Hong Kong*
- *IBS 1028 Principles of Management*
- *BUS 3014 Human Resources Management & Development*
- *BUS 4009 Technology in Business & Human Advancement*
- *BUS 4016 Financial Management*
- *IBS 5152 Fundamentals of Business Education*
- *IBS 5154 Teaching & Learning in Business & Management Studies*
- *BUS 6001 Analysing Employability Skills & Workforce Education Needs*
- *CSLC 1008 Exploring Workplace Competencies*

(1) Professional Talks



- *Guest speakers like CEOs, Wealth Management Consultants, Young Entrepreneurs, Economists, Head Hunters, Law Society , HK Institute of HRM, ICAC, Deloitte Consultant, Social Media Consultant, Management Consultant and CPA (Australia).....*
- *Have to **invite them normally during Summer vacation** for the coming academic year.*
- *Choose those who are **experts in the topics of your courses.***

A Talk on FinTech by Consulting Partner of Deloitte, CPA

- Students were given a chance to know the latest development of FinTech globally. (BUS4009)



A Talk on Financial Analysis by a Chief Financial Officer

- Students could understand the differences between theoretical and practical financial analysis issues by asking the CFO and group discussions. (BUS 4016)



Experience Sharing with PGDE(S)—Business Studies Alumni

- *Current PGDE students were able to discuss and consult their alumni with respect to real life teaching. They could learn pedagogical content knowledge and classroom management from real examples instead of textbooks. (IBS 5152)*



Sharing by Wealth Management Consultant of AIA about Startup and Innovation

- Students were explained the concepts of innovation and how to transform their creative ideas into innovative products/services. (IBS 1028)



A Talk on How Artificial Intelligence is Applied in Human Resources Management

- Students were given the chance to listen to what the director of a global recruitment consultancy firm say about the usefulness of artificial intelligence in the human resources profession. (BUS3014)



A Talk on the Usefulness of Social Media in Digital Economy

- Social media consultant was invited to deliver a talk on the modern practice of social media such as Facebook, Instagram and WeChat in doing business and marketing. (BUS 4009)



A Sharing by The Hong Kong Law Society Council Member on Mentorship in Legal Profession

- The guest speaker tried to explain to the students how mentorship programme could be implemented so that mentors and mentees are both benefited. (BUS 3014)



A Talk on Business Ethics by ICAC

- As business ethics is one of the importance value and culture of business world, especially, in Hong Kong which is one of the top financial centers in the world. Students were taught how to uphold ethical standards through case studies conducted by ICAC representative



(2) Visits and Tours

- *Hong Kong Science and Technology Park*
- *Hong Kong Productivity Council*
- *Hong Kong Trade and Development Council*
- *Industrial Centre of the Hong Kong Polytechnic University*



A Visit of Hong Kong Science and Technology Park— Big Data and Artificial Intelligence

- Students visited Data Centre and Robotic Laboratory and realized the impact of technology on human advancement. (BUS4009)



Visit to the Industrial Centre of the Hong Kong Polytechnic University

- Students were introduced the concepts of artificial intelligence and its genuine application in space engineering, car park system, self-help library and 3-D printing. (BUS 4009)



A Visit to the Hong Kong Institute of Financial Planners

- Students were introduced the qualifications needed, daily experience and functions of personal financial planners and how to pave their ways to this professionals after graduation. (COC 1008)



A Visit of the Hong Kong Productivity Council

- Through such a visit, students could see the latest innovative technology applications in business and manufacturing. They could realise that innovation means putting creative ideas into products/services rather than just a dream. (IBS 1124)



Reflection on Other Learning Experience

Course Name:

Course Code:

Course Tutor:

Name of Student:

Student No.:

Date of Visit/Talk:

Time:

Venue:

Speaker(s) if any:

Purpose/Aims of Visit/Talk:

1. Briefly describe the activity attended. (100 words)
2. How does this activity help you to understand the concepts, theories and applications of this course? (100 words)
3. Will you use some of the information gained for writing up of your assignments? Why and How? (100 words)

Please submit your reflection to me during the lecture straight after the activity for my review.

Thanks.

Dr. Vincent Cheng

APPENDIX II (b) ~ OLE Reflection Reports

Reflection of Hong Kong Science Park visit

Student: PENG ZE LIN

Student number: 11104356

Course: BUS 4009

Date: 14/10/2016

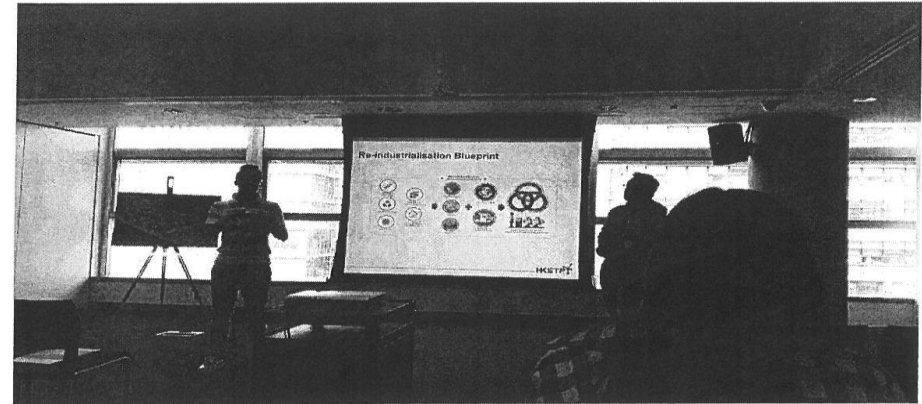
Address: Hong Kong Science Park Phase 2

For learning more technology about how ICT applies to human advancement, we visited the Hong Kong Science Park phase 2, where the industry for developing the most advanced technology applied to our daily life congregate.

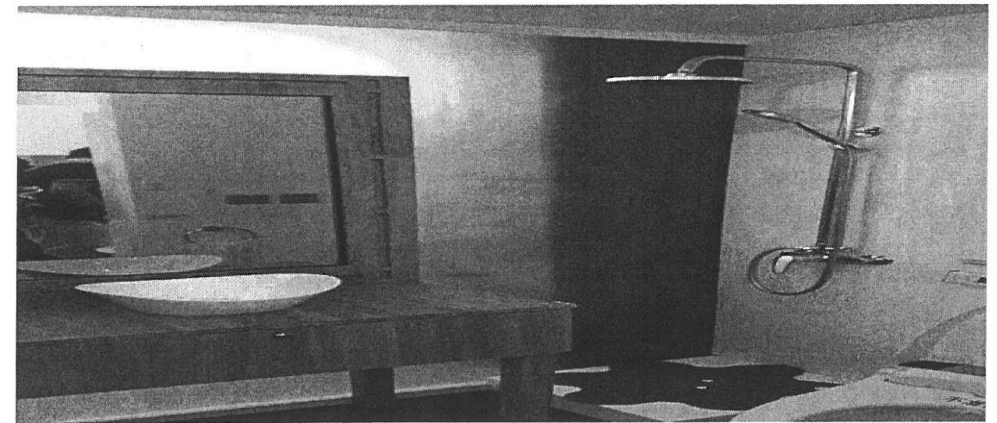
First, the HKSTPC representative introduce the functions of three major sections in Science Park. For instance, Park in Sha Tin corresponds with R&D of technology applications and Most of the information processing devices of banks and telecom operators are in Tseung Kwan O science park section, which is first time that I have heard about.



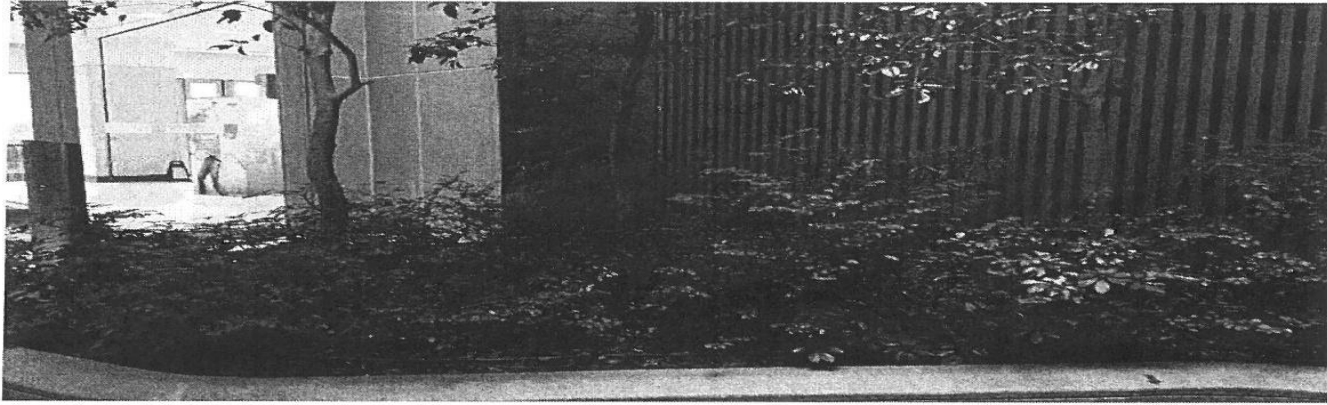
Second the representatives introduce the aims of building up the science park by the blue print of the Re- industrialization blue print, which is for achieving the goals of smart and green modern city.



Then the staff would guide us visit the exhibition of the smart home and architecture design in green science and technology. It's so amazing that everything in smart home can achieving automation. For example, the mirror in the bathroom can display the latest news so that we can take advantage of the shower time to get the latest information while enjoying the shower; The sensitive switch of light can detect the instruction of human in voice so that human can turn on or off the light even though the switch is far away from doors. The building in green science and technology is fantastic too. For example, the building can store large amount of water from rain which is enough for watering the plant in the building every day. The windows of building can smooth the sunshine and keep the office warm and bright all the year around.



(mirror in the bathroom)



(System for watering plants indoor)



(Windows of the building)

From the visit, we can learn that the goal of smart and eco-friendly cities is practical by these great products using the intelligent and green technology. Maybe it is difficult for us to design, but all designs are originated from what we learn in our academic study. I hope the knowledge of ICT that I have learned in university can be applied to the quality of life improvement.

Reflection of the visit to Hong Kong Polytechnic University

Student: PENG ZE LIN

Student number: 11104356

Course: BUS 4009

Date: 23/09/2016

Address: Core W (Podium Level), Hong Kong Polytechnic University

For better understanding of the information system being applied in the medical, environmental, engineering and even arts, we are invited to visit industrial center of Hong Kong Polytechnic University.

First, one of the representatives in industrial center who is responsible for ICT support introduce the IC of Hong Kong Polytechnic University and describe their creative engineering project which won the several awards such as the champion of the China University Robocon in 2014.

Next, the representatives take us to visit the intelligent automation project applied in the public facilities, such as the automatic book storage and retrieval system, automatic car-parking lot, imitated elevator and the retrieval system for the recycle of the plastic bottle. The recycle system of plastic impress me a lot because not only can reuse the material of the wasted bottle, but also it set up the rewarding system which encourage us doing this action consistently. Besides, it can collect the data of users in the statistic to investigate the situation of how the citizens deal with the plastic bottle because it takes advantage of the real-time characters of the TPS system..



(automatic book storage and retrieval system)



(recycle system of wasted plastic bottle)

The next workshop that the staff brought us to is the 3D-printing room. We can find out many 3D-model print by the small printer, such as the plastic cattle, bracelet and automatic book storage and skeleton bone. The staff also implied that if the material can be replaced by the element of the component of our bodies, we will create the bone or organ to solve the problem of the lack of organ and bone for transplantation! Of course, it can also save time and spaces for more parallel 3D-model making process working together, which means the cost of 3D-producing would decrease a lot in the future. Finally, they brought us to Design Realization, Surface Finishing and Digital Manufacturing for material of the spaceship.

From the procedure of the product making, I can find out these procedures fit the model of the TPS system and ERP system. For example, a lot of system contains the functions of manufacturing and production, sales and marketing, financial and accounts like the reward system. This visit raise our awareness of the importance of the TPS system and ERP system. I hope the concepts of these two system can help us to build up the project which can enhance the qualities of our daily life.

BUS4009 – OLE Reflection Summary Report 1

Activity: Guest Lecture of Enterprise Resource Planning (ERP)

Guest: Mr. Mac Tse and Mr. Weson Wong (Integrated Solution Limited)

Date: 02/09/2015

Question 1: Briefly describe the activity attended.

Students' comments:

- A talk explaining the change in the trend of technology in business advancement (80s: Quality, 90s: Engineering, 00s: Velocity)
- An interactive lecture with speaker
- A chance of knowing the pros and cons of Enterprise Resource Planning (ERP) in different sizes of companies
- A talk dedicating the concept and purpose of ERP
- A talk describing the functions of ERP: Produce analytical management report, improve communication mount different parties, collect operation data
- Included the explanation of how ERP benefits company's revenue
- Consisted of Discussion of ERP functions' in human resources management and customer relationship management
- Related to the changes of business environment in recent 25 years and how ERP adapted to these changes

Question 2: How does this activity help you to understand the concept, the theories and applications of this course?

Students' comments:

Positive:

- Speaker's detailed explanation of ERP model helped students understand ERP
- Concrete examples of how ERP concepts be applied to different business environment
- Knowing the concept of system in figuring out solution
- History of ERP helps us know how the system be adapted in different period
- How ERP software integrates all facets of an operation (acting as a core of business)
- The use of ERP in sales and marketing industry
- The importance of accurate data in using ERP
- This activity is practical as it provides an opportunity to learn out of textbooks
- This activity is helpful in planning career
- Why ERP is essential to business and Why the system is so expensive
- 6 major sections of ERP software package
- ERP is only an auxiliary tool to help company develop
- Learning how ERP system assist with POS system on frontline selling
- Knowing how ERP helps track business process and protect critical business data
- ERP implies that communication is critical in business environment

Negative:

- Too general explanation of ERP which is difficult to understand
- Not really understand how ERP is applied in the business industry
- The time is too short for students to ask more details of ERP

Question 3: Will you use some of the information gained for writing up of your assignments? Why and How?

Students' comments:

Positive:

- Knowledge of ERP model can be the background information of writing essay
- Ideas provided by the speakers can be cited in the essay where it is appropriate
- ERP model is contributory to explain the improvement of business process
- ERP can be reference for writing essay
- ERP knowledge is applicable to the discussion of TPS
- Can be used to investigate how important Velocity is in ERP
- Useful in discuss whether ERP system provides enough information to fulfil users' requirement
- Experience shared by Weson can make the essay more persuasive
- This activity provided pop up to investigate why large scale industry still encountered failure even it adopted ERP
- The information has high relevance of the topic Point-Of-Sale system
- ERP can help explain how to enhance productivity with technologies
- Weson's explanation of the concept "SMART" is useful in writing assignment
- Useful in analyzing the future of online selling with ERP software
- This talk implies students to find out the factors affecting business development in 21st century

Negative:

- ERP may not be suitable in writing all types of essay
- The topic of ERP is not suitable in discussing human resources management
- Not easy to match the topic of ERP in writing essay (e.g. Not applicable to Consumer Electronic Commerce Business Model)

BUS4009 – OLE Reflection Report Summary

Activity 2: Visit of Industrial Centre in The Hong Kong Polytechnic University

Date: 09/09/2015

Question 1: Briefly describe the activity attended.

Students' comments:

- Introduction of the background of Polyu Industrial Centre
- Understanding technological achievements: The new technology in Hong Kong especially three-dimensional printing technology
- Understanding the procedure of printing a model by 3D printing
- Understanding how 3D printing is used in manufacturing industry
- The advantages of quick demo production
- Illustrating the auto car-parking system
- Visiting the studio of Carbon Fiber

Question 2: How does this activity help you to understand the concept, the theories and applications of this course?

Students' comments:

Positive:

- Students generally believe joining this trip has broadened their horizons
- The potential product shown in the visit matched with the theme of the course
- Help students understand the history of 3D printing
- Understand how 3D printing system operates (e.g. materials, process)
- Understand auto car parking system
- Business application of 3D printing technologies
- Information Technology application in business
- The importance of using new technologies to save production time
- The essence of using new technologies in boosting the development of an industry (e.g. 3D printing of prototypes assists business sector to improve their product with lower cost, The use of carbon fiber to enhance cars' quality)
- The visit aroused students' interest in searching more information of 3D printing
- The visit inspired students how the existing technologies could be integrated and innovate

Negative:

- The time is too short for students to learn
- Information received in the event is not deep enough
- Students felt disappointed as they did not have a chance to see the whole process of 3D printing
- Technologies will not be included in the course which made students feel upset

Question 3: Will you use some of the information gained for writing up of your assignments? Why and How?

Students' comments:

Positive:

- Help analyzing how 3D printing enhances the quality of life with business perspective
- Can be one of the examples of how technologies apply to daily life (e.g. parking system, lift system)
- Imply students to use "smart controlling" as a theme in doing assignments
- Imply students to discuss the use of artificial intelligence or e-system in business sector
- Imply students to analyze how one type of technology can be applied in various categories (Topics of Assignment 2)
- Imply students to discuss the innovation of new technologies for home security
- RFID explanation is useful for students to be the example in assignment 2
- The visit related to the topic of "I-Home"

Negative:

- Students did not recognize the high connectivity between the visit and their assignments
- The visit could only provide general ideas of automatic system but not useful in doing projects
- This visit only focused on the early process of product cycle but not useful in discussing marketing process

Sharing from my students about professional talks and visits

- Kenneth –BEd (BAFS) Year 4 2018-19

Dr. Cheng always invites some guests to give us a talk to know more about the real-world situation.He brings us outside the classroom to learn as well, for instance, he organized a visiting to The Hong Kong Productivity Council (HKPC) in the course of “Business Environment in Hong Kong” to learn how the council supports the Hong Kong companies to increase its competitiveness.

Dr. Cheng worked hard to design his lessons and create an interesting learning environment for the students and we really enjoy taking his courses as we will never get bored.



Sharing from my students about professional talks and visits

- **Joanna—BEd (BAFS) Year 4 2018-19**

Dr. Cheng always encourages his students to explore technology and international business relations. He invited some guests such as Chief Economist of Hong Kong Competition Commission, Director at Ambition of Hong Kong and visit HKPC and so on.

Let the students **learn outside the classroom and understand the real economic and technological situation** of Hong Kong.

A happy visit to HKSTP

- https://drive.google.com/file/d/1N3_rKEplz7J7SIeBC2kRgvkeXbGCvz5b/view
- (42 sec)

Hints for preparing for authentic learning

- **CILOs –oriented (relevant and informative)**
- **Assessment-related (especially related to their group projects)**
- **Contact speakers and organisations as early as possible** , normally at least one month before the commencement of the course
- **Briefing and Debriefing (Readiness and Reflection)**



Benefits of Authentic Learning

- Higher learning motivation
- More updated knowledge acquired
- Wider and Deeper Experience obtained
- More study/career interests and aspirations developed



thank
you