

捷克科技大學返國報告書

26-1、學校簡介

捷克科技大學(Czech Technical University)是一個歷史悠久的學校，在 18 世紀時創立，位於布拉格，有三個校區，最主要的校區距離舊城區大約 15 分鐘車程，交通便利，與機場距離也不遠，科系大多與理工相關，有土木工程學院、機械工程學院、核物理工程學院、電子工程學院、建築學院、交通科學院、生物工程學院、信息學院，全校約有 18000 名學生，也有很多交換學生，幾乎歐洲各國學生都有。

26-2、 國外研修之課程學習（課內）

這學期我修習了四門課，總共 9 學分，分別是 Managerial Psychology、Surface and Interfaces、Czech language for beginners I and Physical Education (badminton)，除了體育課之外都是機械工程學院的課程，由於每個學院的選課方式不同，有的是線上選課，有的要寄信詢問教授，機械學院是需要記下選課代號現場去登記課程，課程資訊會公布在網路上，若需要其他學院的課程也可以在現場登記，然而體育課與一般選課系統不同，需要在另一個網站上登記，下面大概介紹我所修習的課程與心得：

-Managerial Psychology: 上課教室不是在主要的校區，而是在接近舊城區的地方(Karlovo Namesti)，與一般管理學有點類似，只是是開在機械學院，上課時教授使用 PPT 和影片教學，第一堂課會請每個學生自我介紹，發現課堂上都是交換學生，幾乎每個歐洲國家的學生都有；之後的課程會介紹一些管理的技巧與溝通的方式，在課堂上老師也提出一些問題，要求我們分組討論與上台報告，雖然剛開始很不適應，但是可以得到很多跟外國學生討論的機會，而期末時教授會提供每一組一個實際的案例，假設我們是管理者，要求我們提出一些可行的方案並上台報告，當作期末成績，沒有期末與期中考，有事情也可以先跟教授請假，不要缺課太多次教授都會通融。

-Surface and Interfaces: 上課地點也是在接近舊城區的地方，課堂上只有 7 個人，算是小班教學，所以有問題都可以提出來，教授都很樂意跟我們討論，上課內容分為講課、實驗與參訪，講課的部分不多，大概四堂課，介紹電漿(plasma)與一些鍍膜技術，之後教授會帶我們去實驗室，剛開始會一一介紹實驗室的儀器後來會帶我們做實驗與分析(但是不能自己動手做…)，第一個實驗是 PVD 鍍膜，鍍完後再分析表面結構與耐磨程度等等…第二個實驗是量測水滴或其他液體與平台的角度與表面張力，計算表面能。實驗過

後有兩次參訪的機會，一次是到一間製作飛機零組件的公司參訪(但是那次沒收到訊息就沒去了..)第二次是參觀一間 PVD 鍍膜公司，產品是一些鋼珠、螺絲或是釘子之類的，需要上面鍍需要的金屬，在裡面可以看到一些鍍膜或檢測機器，從實驗室到量產的過程，雖然有些東西聽不太懂，但是仍然覺得收穫很多。再來也沒有期末考，只有期末報告，教授會指定一些題目，針對那些題目上網找些資料，大概 10 分鐘的報告時間即可。這堂課其實算是輕鬆，教授不會出作業，只是教授有點口音，需要時間適應。

- Czech language for beginners I: 上課地點也是在接近舊城區的地方，上課方式為聽講，學生複誦，上課內容都是平常可以使用到的對話與單字，很實用，期中、期末考都可以開書寫，也是很輕鬆就可以及格的課程，但是教授口音很重，常常聽不懂是在說捷克文還是在講英文，可能需要先預習會比較容易理解。

- Physical Education (badminton): 上課地點在學校的體育中心，離主要的校區不遠，以捷克文上課，因為班上幾乎都是捷克人，但是教授因為我還會特地講英文，班上同學也很熱心幫我翻譯，上課起來滿順利的，另外球拍跟羽球都可以在運動中心租借，不用特地去買。

另外雖然表定學期是在 2 月初才結束，但大部分的課程都會在聖誕假期之前就結束，在剛開始上課時就可以跟教授確認。

26-3 國外研修之生活學習（課外）

除了上課之外主要會參加的活動就是國際學生會舉辦的活動，在學期初或學期末的時候會有很多 party，大多在夜店，可以有很多機會認識不同國家的學生，除此之外還有舉辦一些旅行，去捷克其他的城鎮或是景點，另外我也有開中文課程，教一些簡單的中文與台灣的文化，雖然來參與的人不多，但也是很難得的經驗，有捷克、俄羅斯、哈薩克跟烏克蘭的學生，在上課過程也可以順便跟他們討論他們國家的差異，不只介紹台灣給他們，也可以了解更多國家的觀點。

再來除了捷克的生活，在假日有空時也會去其他國家旅行，總共去了七個國家，每個國家都有不同的交通運輸系統，不同的運作模式，每次到不同地方都需要重新適應，體會每個國家的習俗也非常有趣，而且行程規劃也是種學習，該如何在有限的時間或金錢下安排行程，和解決意料之外的問題的能力。

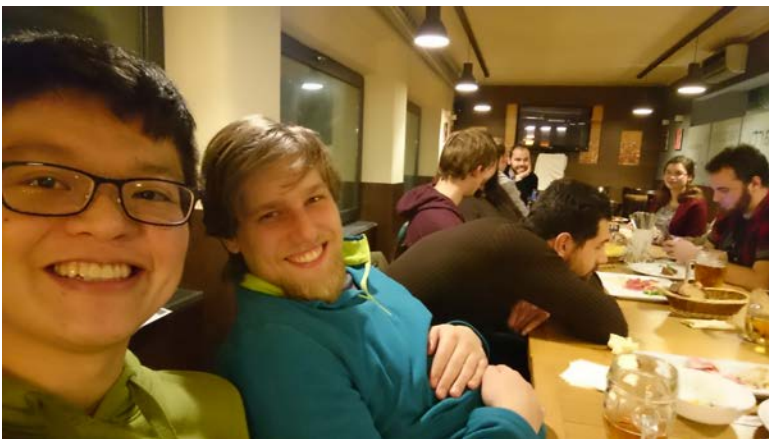
26-4 交換/研修之具體效益（請條列式列舉）

- 學習理解不同背景文化的人，就算不認同也需要尊重對方
- 接受新知的能力，因為科技與知識總是日新月異，保持終身學習
- 獨立自主的能力，遇到各種問題須要如何解決
- 英語溝通的能力

26-5 感想與建議

還記得在投遞交換的資料時總把事情想得很美好，可以有很多機會練習英文，可以認識很多外國朋友，可以去很多國家旅行，可以體會到當地民俗風情，交換生活只有短短四個月，沒辦法什麼事情都嘗試到，覺得學會取捨很重要，每個人想要的東西都不同，了解對自己重要的東西是什麼，不要浪費時間在不重要的人事物上，而且事情總不如想像中的順利，會有很多意料之外的問題，在規劃時需要預留一些緩衝的時間或備案。另外學習尊重不同價值觀的人也很重要，我覺得是對的別人不一定認同，每個人都有自己的喜好，就算都是台灣人也是一樣，出去旅遊時有的人喜歡購物，有的喜歡看風景，有的喜歡看古蹟，可以不認同，但是一定要尊重別人的想法。

26-6 相片



語言老師的聚餐



Surface and interfaces 實驗過程



ISC 中文課上課過程

26-1 Introduction of school

Czech Technical University is a historical university. It was founded in the eighteenth century and located in Prague. Most departments are related to engineering. CTU has eight faculties (Civil Engineering, Mechanical Engineering, Electrical Engineering, Nuclear Science and Physical Engineering, Architecture, Transportation Sciences, Biomedical Engineering, Information Technology) most of them are related to engineering and it possesses about 18,000 students.

26-2 Learn from daily life in foreign study (In the class)

I took four classes in the semester totaling nine credits. They are Managerial Psychology, Surface and Interfaces, Czech language for beginners I and Physical Education (badminton). Here are my reflections of the classes:

- Managerial Psychology: Classroom is not in major campus, it's near old town city. It's similar to management. In the first class professor asked us to introduce ourselves. In the following classes professor introduced fundamental theory of management and how to communicate effectively. Team up with different country student, discuss and present on the stage. Although I am not used to it at first, it's a valuable experience I have never met. In final, professor also gave us a practical case and figure find out a solution.
- Surface and Interfaces: There are lessons, excursions and experiments in the class. At first, we took lessons for about four weeks. It's about plasma and some coating methods. After the lessons we went to laboratory and watch professor do the experiment. It's about PVD coating and calculation of surface energy. After experiment, we have two excursions. One is a company which produce airplane's component. The other is a PVD coating company. It's a very interesting class.
- Czech language for beginners I: It's a very useful class. Professor taught us basic sentence or vocabulary that can be used in daily life. However, sometime I can't understand what teacher is talking about because of the accent.
- Physical Education (badminton): It's a Czech lesson because all of the students come from Czech. However, some students translate for me. I am so appreciate about that, they very friendly. Though I didn't learn lots of skills in badminton, I had lots of interaction with local students.

26-3 Learn from daily life in foreign study (extracurricular)

Except study what activities we participate the most is held by ISC. In the beginning and the end of semester there will be lots of parties. Most of them were held in night club. You can meet lots of students from other country. In addition to parties, there are some trips also held by ISC, visit other towns in Czech Republic. And I held Chinese

language course in ISC, teach simple dialogue and Taiwan's culture. Although there are not much students, it still a memorable experience. We also discuss some cultural difference in the class, not only introduce Chinese.

26-4 Specific benefit

- Learn to respect people from different background.
- Accept new technology and knowledge.
- Learn to be independent.
- Learn how to communicate with English.

26-5 Reflection

Remind when I was writing my exchange target, everything was perfect. I can practice foreign language, meet lots of foreign students and make many friends, travel to lots of countries, experience local culture. However I have only four month, I can't try everything. Reality is harder than I thought. I think find out priority task is important. Don't waste time on something or someone that is not important.

And there will always some accidents happen. When I am making the plan, I need to preserve some buffer time or backup. However failure is quite normal, I don't need to be upset or disappoint, just keep going.

Learn respect is also important. Maybe I feel something is good, but maybe it is not to others. Maybe I feel something is delicious might be disgusting to others. Everyone has their hobby. Sometimes I don't agree, but I need to respect.