學校簡介-馬賽中央理工學院

馬賽中央理工學院為法國五間中央理工學院之一，其他四間分別位於巴黎、里昂、里爾、南特，其前身為馬賽工程師學院。要進入這所學校就讀，需先修讀兩年甚至三年的預備課程，然後進行中央理工學院聯合考試，以決定可進入哪所理工學院。為增強對企業的了解，對各年級學生，需分別進行至少一、二及六個月的強制性實習。此外，在法國，超過兩個月的實習為強制支薪。在經過法國三年制高等教育的學習後，學生即可獲得工程師文憑。

國外研修之課程學習（課內）

於馬賽中央理工學院的授課方式與台灣的授課方式略有不同，他們不僅擁有傳統的授課方式，即教授站在前面講課提供學生知識，還提供了許多在課堂上討論些案例或主題的機會。像是某些特定的課程，整個課程內容即是讓學生作為專業團隊一般接案子，就像是那種需要簽訂合同的案子。舉例來說，第七學期時(S7)，我和幾個學生為一位建築師工作，主要內容為分析她的玻璃制房屋的能量損失，並於最後提出還有哪些可以改善的地方給予那位建築師一些建議。在第八學期(S8)，我和另一組學生對於一個水力渦輪進行數據分析，主要分析之前的學生所完成的實驗結果，希望得出如何能使此渦輪更有效率。於交換的這一年，我選擇研修的領域是環境工程。大多數更像是一個整合的、更偏向應用性的課程。更具體地說，學校將一門課程分為不同的部分/專業，由不同的教授分別授課，也就是說一門課程不會只有一位教授教課。環境工程以及生物醫學是馬賽中央理工學院唯二用英語授課的領域。在上學期，除語言課程外，所有課程均以英語授課。下學期時，有些課為法語授課，不過還是有些教授會提供用英語編寫的課程教材，因此即使我的法文聽力不是很好，我仍然可以大概理解授課的內容。但如果授課、教材皆為法語，學習起來就會有些吃力。

國外研修之生活學習（課外）

每個月的第一個星期日，是可以免費進入博物館的，因此是很好的機會可以去參觀博物館以及欣賞一些展覽。如果是室外活動，在馬賽附近，有個國家公園叫 Calanque，風景很壯觀，有山有峽灣，還蠻多人會在周末時去遠足和躺在沙灘上享受陽光。或者，於假期期間，可以試試在歐洲進行跨國旅行。或者一開始，如果沒有勇氣走太遠，可以從附近村莊開始觀光。一天走一個村莊是一個不錯的選擇，可以有很多時間慢慢探索法國南部普羅旺斯地區的風光。然後以此為開始，距離越跑越遠。

交換/研修之具體效益

- 從不同方面看待國外的高等教育尤其是西方國家是如何運作
- 感受不同的生活方式，學習如何在文化背景與台灣完全不同的陌生國家生活
- 有機會認識來自許多國家的其他學生

感想與建議

不要害怕用法文溝通，即使不擅長，也要勇敢地說。通過實踐才能夠更好地學習語言。

Ecole de Centrale Marseille

Ecole de Centrale Marseille is one of the centrale graduate school (Grande école of engineering) located in Marseille, France. To study in this school people need to take two or even three years pre-school ahead, then, take a national test to see which engineering school can get into. After three-years education in the Grande école, students will gain their engineer diploma. For each year student, it is mandatory for them to find an internship corresponds to one, two, and six months, and in France it is obligatory to get paid for more than two-month internship.

Courses

The way they teach in Ecole de Centrale Marseille is a little bit different from the way in Taiwan, they not only have traditional teaching, that the professor stand at the front telling the lecture gives knowledges to students, but also has lots of chances for students to discuss a case or a topic within the class. And for some specific classes, the whole class is to let students working on a project formally as a professional team taking cases, the kind that need to sign a contract. For instance, at semester seven, a few students and I work for an architect to analysis the energy loss of her glass made house. And for the semester eight, another group of students and I work on a water wheel project to data analysis its previous done experiment result. This year, the field I chose to study is environmental engineering. Most of the classes are more like a general concept, for more specifically, they divided courses into different parts/specializes. Then, there are more than one professor teach the class and in charge for different part of the course. Environmental engineering is one of the two fields taught in English in this school. For the first semester, all the class except the language class were taught in English. For the second semester, some were taught in French. But the professor may provide the PowerPoint written in English, so even I am not good at French listening, there still a way for me to understand what the lecture taught about.

Life

First Sunday of each month, it is free to enter the museum, so it is quite a chance to visit there from time to time. Near Marseille, there is a national park called Calanque has spectacular landscape, lots of people will go hiking and laying on the beach at weekend enjoy the sunshine. During holiday or vacation, it will be a great opportunity to travel around the Europe. Or at the beginning, if not having the courage to go too far, it could be a great start to begin from the nearby villages. One day for one village is a good choice, to have plenty of time to explore the Provence area of the south France. Start from there, to travel further and further.

Specific profit

- Different aspects to see how the higher education works in foreign country especially western country
- Different lifestyle, and learn how to live in an unfamiliar country whose culture background is quite different from Taiwan
- Chance to meet other students from many countries

Advice

Do not be afraid to talk, just be brave to speak in French even you are not good at it. Learn better with practical practice.