

## 全方位大學研習課程 (MUL7101)

2010年9月18日至2011年3月

合辦機構：香港理工大學 應用生物及化學科技學系

全方位大學研習課程以成果為本，為資優學員提供一個開放及互動的學習環境，鼓勵他們從研究課題中互相學習，提昇參加者的團隊精神。研習過程由大學資深導師帶領，引導學員在個別所屬專長發揮創意及才能。學員在研習的過程中不但能增進與研究課題相關的知識，透過以發問及成果為本的學習方法，亦可提高學員難決問題的技巧，並把學習成果應用在日常生活的挑戰上。

### 課程詳情:

預期學習成果	<p>完成課程後，學員預期能夠得到以下學習成果：</p> <ol style="list-style-type: none"> <li>1) 藉著所選的研究課題，學習計劃研究及分析技巧，主動學習過程</li> <li>2) 學習團體精神，與組員合作完成研習課題功課</li> <li>3) 認識合適的研究工具及技巧，並在學習過程中加以運用</li> <li>4) 了解研習課題能夠為社會帶來的好處</li> </ol>
日期及時間	<p><b>開課日安排</b>  <b>日期:</b> 2010年9月18日(星期六)  <b>時間:</b> 早上9時至中午12時  <b>地點:</b> 九龍紅磡香港理工大學，Y座李兆基樓，Y410室</p> <p>* 整個研習課程將進行至2011年3月，開課日以後與導師會面的日期、時間、地點及有關詳情將由導師與學員自行溝通及決定。導師或會安排相關的戶外考察活動。</p>
參加資格	中三至中七「香港資優教育學院」學員 (課堂上限為30人)
教學語言	粵語及英語
課程要求	出席最少80%節課並合格完成所有習作可獲頒課程證書
課程費用	免費

學員可就個別興趣參與以下其中一項研習題目：

(請在申請表上列明所選擇的研習題目，詳情請參閱附件)

(只限英文版本)

Mentor	Project Title	Discipline
Dr. Gilbert Chan	Application of Ozone Technology for Food Production having high levels of antioxidant and cancer preventive ingredients	Environmental Science
Dr. Eddo Choi	Hormonal Control for Teenagers	Medical Science
Ms. Winsy Leung	Relationship between Cognitive Performance and Omega	Dietitian
Mr. Patrick Fong	Visual Communication for expressing our observation and insight in Hong Kong lifestyle	Design
Ms. Eva Lo	Leadership Training at Work	Leadership Training
Dr. Andrew Ip	Automation for a Sustainable Environment	Automation
Mr. V C Liu	Innovative solutions for low cost and scalable cooling systems to improve solar PV panel efficiency	Engineering

## 導師及研習題目

備註:

- 首次與導師的會面將 2010 年 9 月 18 日開課日進行，其餘的會面時間則由導師與學員約定。

## 報名方法及 截止報名日期

- ❖ 有興趣參加上述課程的學員，請於學院網頁 <http://www.hkage.org.hk/> 下載報名表。
- ❖ 請填妥「報名表」並於 **2010 年 9 月 9 日(星期四)** 或之前郵寄或傳真至本學院 (傳真號碼: 2490 4730)。遲提交報名表者，其申請將不獲考慮。
- ❖ 請學員於 **2010 年 9 月 14 日(星期二)** 下午 5:00 後 瀏覽上述網頁查閱入選結果，恕不另函通知。
- ❖ 獲取錄的學員請於上述網頁下載「確認回條」，並須於 **2010 年 9 月 17 日(星期六)** 或之前填妥及傳真至本學院。

## 查詢

請致電 3698 3498 與葉小姐或 3698 3494 與鄺先生聯絡。

附件 – 研習課題詳情

(只限英文版本)

\* 請在申請表上列明所選擇的研習題目

	Project Title 研習題目	Project Leader 導師	Bio of Project Leader 導師背景	Mode of Teaching 授課方式
1	Application of Ozone Technology for Food Production having high levels of antioxidant and cancer preventive ingredients	Dr Gilbert Chan	<ul style="list-style-type: none"> <li>- Chairman, Sino Ozone Association</li> <li>- Chairman, Certification Advisory Committee, Eco-product Certification Scheme, a quality system based on ISO/IEC Guide 65</li> <li>- Chairman, Association for Agriculture and Fishery Sustainable Development</li> <li>- Advisor, Joint Committee of Hong Kong Fishermen's Organizations</li> <li>- The first invited speaker of the Research Grants Council Public Lecture "Oxidant, Antioxidant and Cancer preventive Foods", 18 April 2009.</li> </ul>	Students will be arranged to conduct experimental study in a university laboratory or field work.
2	Hormonal Control for Teenagers	Dr Eddo Choi	Registered Medical Officer	Seminar, tutorial training, and clinic visit will be arranged.
3	Relationship between Cognitive Performance and Omega -3 intake of gifted teenagers	Ms Winsy Leung	Registered Dietitian (USA), Accredited Dietitian (HKDA)	Literature study and/or questionnaire survey
4	Visual Communication for expressing our observation and insight in Hong Kong lifestyle	Mr Patrick Fong	<ul style="list-style-type: none"> <li>- Creative Director &amp; President, Can-Asian Advertising Ltd., Canada</li> <li>- Winners and Judges of numerous international creative awards</li> <li>- Visiting lecturer</li> </ul>	<ul style="list-style-type: none"> <li>- Students will be arranged to attend brainstorm sessions in some of Hong Kong's less known neighbourhoods;</li> <li>- Visual presentation skills (video, photography, drawing etc.) will be the basic tools.</li> </ul>
5	Leadership Training at Work	Ms Eva Lo	<ul style="list-style-type: none"> <li>- A very experienced trainer, specializing in communications skills training and leadership skills training.</li> <li>- Currently, Director of Knowledge Management at Langham Place Hotel.</li> <li>- Prior to the current position, managed her own training business, serving clients in banking, shipping and hotels.</li> </ul>	<p>Students will participate in an in-house training programme at a 5-star hotel. The programme will include:</p> <ul style="list-style-type: none"> <li>- workshop (introduction to hotel operations);</li> <li>- job shadowing, e.g. restaurants, rooms, concierge, security;</li> <li>- analysis of hotel operations, e.g. leadership, teamwork, service, efficiency</li> <li>- presentation of findings; and</li> <li>- feedback from mentor</li> </ul>
6	Automation for a Sustainable Environment	Dr Andrew Ip	<ul style="list-style-type: none"> <li>- Associate Professor, Industrial and Systems Engineering Department, The Hong Kong Polytechnic University</li> <li>- Has more than 25 years of experience in industry, education and consulting.</li> <li>- Teaching and research interests are: Green Logistics and Supply Chain, AI and Machine Vision systems, Mechatronics and product innovation.</li> </ul>	Students will be arranged for laboratory work, field visit and mini-group project.

	<b>Project Title</b> 研習題目	<b>Project Leader</b> 導師	<b>Bio of Project Leader</b> 導師背景	<b>Mode of Teaching</b> 授課方式
7	Innovative solutions for low cost and scalable cooling systems to improve solar PV panel efficiency.	Mr V C Liu	<p>Technical Director &amp; Founder of Jet Data Co.,Ltd., a hardware, firmware and system design house for electronics sub-systems.</p> <ul style="list-style-type: none"> <li>- Designer of vertical axis micro wind turbine based on Gorlov helical structure.</li> <li>- Engineering project management for renewable energy micro-generations based on scalable integration of hybrids of solar PV panels, solar heat collectors, horizontal axis micro wind turbines and mini water turbines.</li> </ul>	Students will be arranged to fabricate their models at an engineering workshop and for field monitoring.