

Subject Description Form

Subject Code	ABCT5111
Subject Title	Industrial Practicum
Credit Value	3
Level	5
Pre-requisite	N/A
Objectives	<p>This subject provides opportunities for students:</p> <ol style="list-style-type: none"> 1. To expose students to the real-world environment of biotech companies in Hong Kong ,, or China. 2. To provide hands-on experience and insights into the operations, culture, and strategies of tech companies. 3. To enable students to apply academic knowledge to practical situations and challenges faced by tech companies. 4. To foster networking opportunities and potential future collaborations between students and biotech companies. 5. To instill an understanding of current technological advancements and innovations taking place in biotech companies.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a) Demonstrate a clear understanding of the company culture, operations, and technology trends within a biotech company. b) Effectively apply academic knowledge to solve real-world problems faced by companies. c) Establish professional connections and networks with industry experts and peers in the biotech sector. d) Reflect on personal and professional growth achieved during the attachment period. e) Present key takeaways, experiences, and learnings from the company attachment in a comprehensive report or presentation.
Subject Synopsis/ Indicative Syllabus	<p>1. Technical Competence: Understanding and implementing core technical skills in a real-world biotech environment.</p> <ul style="list-style-type: none"> - Engage in hands-on tasks and projects to apply academic knowledge in actual work settings within the biotech companies. - Participate in technology-driven tasks, understanding the nuances of tech products and platforms. - Adhere strictly to the Occupational Safety and Health (OSH) precautions while operating tech equipment and machinery.

	<ul style="list-style-type: none"> - Follow laboratory safety measurements and protocols, ensuring a secure environment for experimentation and testing. <p>2. Interpersonal Competency: Building and nurturing professional relationships in a biotech-driven environment.</p> <ul style="list-style-type: none"> - Engage in clear and concise communication with tech teams, project managers, and other stakeholders. - Participate in meetings, brainstorming sessions, and project discussions, ensuring the effective conveyance of ideas and feedback. - Work harmoniously with professional teams within the company, understanding the dynamics of team projects. - Contribute constructively to team efforts, ensuring the success of collaborative projects. <p>3. Life-long Learning: Fostering a continuous learning mindset in the rapidly evolving biotech world.</p> <ul style="list-style-type: none"> - Seek and treasure learning opportunities through keen observation, practice, and engagement in biotech environment. - Attend workshops, seminars, and training sessions to expand knowledge horizons. - Engage in regular reflection sessions to assess personal growth, challenges faced, and lessons learned during the attachment. - Utilize feedback for continuous improvement, ensuring better performance in subsequent tasks. <p>4. Professional Development: Upholding the highest standards of professionalism in the biotech industry.</p> <ul style="list-style-type: none"> - Stay informed about the professional responsibilities attached to roles and tasks within companies. - Understand and respect the ethical considerations associated with tech projects. - Uphold and advocate for the standards of professional and personal conduct, ensuring a positive and ethical work environment. - Regularly update personal knowledge and skills to match the evolving tech standards of biotech company.
<p>Teaching/Learning Methodology</p>	<p>Company-based work experience in the Biotechnology Cluster of Hong Kong Science and Technology Park or any biotech companies in China. Presentation, Reports</p> <ol style="list-style-type: none"> 1. Presentation will give a detail report on what the students have performed and achieved during the attachment and the student should clearly report to our staff via an individual presentation.

	<p>2. Reflective journal will assess students' ability to review the company attachment experience in details.</p> <p>3. Performance assessment will assess students' professional attitude and working performance by mentors in the company.</p> <p>Students are required to:</p> <ol style="list-style-type: none"> 1. Work in a company in Hong Kong or in China to complete at least 200 placement hours in the entire practicum; 2. record and review their performance in the reflective journal; 3. be assessed the performance in each discipline by mentors in the company. 						
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	Percentage weighting	Intended subject learning outcomes to be assessed				
			a	b	c	d	e
	1. Presentation	30%	✓		✓		✓
	2. Reflective journal	20%	✓	✓		✓	✓
	3. Performance assessment	50%	✓	✓	✓	✓	
Total	100%						
	<p>Students are required to work in a biotech company to complete at least 200 placement hours. Failure to fulfill time requirement will result in a student being unable to attain a passing grade in this subject.</p>						
Student Study Effort Expected	Class contact:						
	<ul style="list-style-type: none"> ▪ Practicum in company 						200 Hrs.
	Other student study effort:						
	<ul style="list-style-type: none"> ▪ Self and guided study 						10 Hrs.
	<ul style="list-style-type: none"> ▪ Daily log and reflective report 						10 Hrs.
Total student study effort						220 Hrs.	
Reading List and References	<p>1. O'Neill, M., & Hopkins, M. M. (Eds.). (2012). A biotech manager's handbook: A practical guide (Woodhead Publishing Series in Biomedicine; No. 9). Woodhead Publishing. ISBN : 1-908818-15-8</p>						
	<p>2. Shimasaki, C. (2014). Biotechnology Entrepreneurship: Starting, Managing, and Leading Biotech Companies (1st ed.). Elsevier Science. ISBN: 9780124047471</p>						

