# The Hong Kong Polytechnic University

# **Subject Description Form**

Please read the notes at the end of the table carefully before completing the form.

Subject Code	ELC3525				
Subject Title	Scientific Communication for BME Students				
Credit Value	2				
Level	3				
Pre-requisite/ Co-requisite/ Exclusion	LCR English subjects				
Objectives	This subject aims to develop the English language and communication skills required by BME students to discuss, report and present scientific studies in writing and speaking.				
Intended Learning Outcomes (Note 1)	<ul> <li>Upon completion of the subject, students will be able to:</li> <li>a. Describe and integrate data and sources critically and coherently in scientific communication;</li> <li>b. Organise and produce scientific laboratory reports effectively and in a scientific manner;</li> <li>c. Select, transfer and deliver objective-based speeches of scientific projects convincingly;</li> <li>d. Respond to inquiries and interpret ideas professionally.</li> <li>As part of A2, students are required to answer inquiries following their presentations, which is why ILO(d) above has been added.</li> </ul>				
Subject Synopsis/ Indicative Syllabus (Note 2)	<ul> <li>The content is indicative. The balance of the components, and the corresponding weighting, will be based on the specific needs of the students.</li> <li>1. Introducing scientific studies     Explaining the background to a study; reviewing, synthesizing and critiquing sources and previous studies; stating objectives; describing procedures; justifying ideas.</li> <li>2. Organising data and research materials     Arranging written and verbal content logically and systematically; maintaining coherence and cohesion.</li> <li>3. Exhibiting study results     Describing and interpreting results; explaining causal relationships; discussing implications; presenting conclusions.</li> </ul>				

# Teaching/Learning Methodology

(*Note 3*)

The study method is primarily seminar-based. Activities include teacher input as well as individual and group work involving drafting and improving texts. Students will be referred to information on the Internet and the ELC's Centre for Independent Language Learning.

Learning materials mainly developed by the English Language Centre in collaboration with BME are used throughout this course. Additional reference materials will be recommended as required.

## Assessment Methods in Alignment with Intended Learning Outcomes

(*Note 4*)

Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					
		a	b	с	d		
1. Individual Laboratory Report	10%+35%	√	√				
2. Individual Oral Presentation of the Scientific Project; and Q&A	35%+20%	<b>V</b>		<b>V</b>	<b>V</b>		
Total	100 %						

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Assessment One is based on information provided by the BME programme leader. Standard lab report format involves conducting a theme-based lab experiment (by BME), collecting data (by students), and presenting findings (as part of the ELC's assignment). Prior to submitting the full lab report, students will be asked to participate in a pair review session to be conducted in Consultation One. By interacting with classmates from another group, students will be able to achieve higher-order thinking through peer learning. The "results" and "discussion" sections of their lab reports could be more personalised and justified as a result. This will contribute 10% to the final assessment grade.

Assessment Two is based on the BME group project proposal, in which each student and his/her group will discuss the same topic that has already been approved. However, students will finish this assessment individually, even though they should work in a group environment. Students will attend a group interaction section in Consultation Two where they will discuss work focuses and identify persuasive elements to use in their individual oral presentation. In essence, each student will confirm with the teacher one objective of his/her group project proposal and how his/her oral presentation will contribute to it.

To counteract any negative effects of overreliance on AI, the Q&A following an individual oral presentation is now assessed separately. Students' interactions with their classmates allow the teacher to assess their spoken proficiency more accurately. The following criteria are being included in a new assessment rubric\*:

	Response (30%) – Complete; Exact; Persuasive						
	Interpretation (30%) – Ability to exemplify as planned; Uniqueness/creativity in response to new challenges						
	Etiquette (20%) – Positive; Focused without distraction; Appropriately interactive						
	Language (20%) – Concise; Comprehensible; Grammatical						
	This subject adopts the method of 100% continuous assess Students' writing and speaking skills are evaluated through assessment tasks designed to achieve the learning outcomes. Students assessed on the accuracy and the appropriacy of the language fulfilling the assessment tasks, as well as the selection and organ of ideas during their active participations in discussions.						
Student Study Effort Expected	Class contact:						
	<ul> <li>Seminars</li> </ul>	26 Hrs.					
	Other student study effort:						
	<ul> <li>Classwork-related and assessment related preparation and self-access work</li> </ul>	52 Hrs.					
	Total student study effort	78 Hrs.					
Reading List and	Required reading						
References	<ul> <li>Course materials prepared by the English Language Centre</li> </ul>						
	Recommended readings						
	Beer, D. F. (Ed.) (2015). Writing and speaking in the techn professions: A practical guide. Hoboken, NJ: Wiley.						
	Leedy, P. D. (2019). Practical research: Planning and design. Upper Saddle River, NJ: Merrill. [Chapter 6: proposal writing with example extracts]						
	<ul> <li>Locke, L. F. (2009). Proposals that work: A guide for planning dissertations and grant proposals (5th ed.). Thousand Oaks, CA: Sage.</li> </ul>						
	■ Tebeaux, S. (2018). Writing science right: strategies for teaching scientific and technical writing. New York: Routledge.						

## Note 1: Intended Learning Outcomes

Intended learning outcomes should state what students should be able to do or attain upon subject completion. Subject outcomes are expected to contribute to the attainment of the overall programme outcomes.

### Note 2: Subject Synopsis/Indicative Syllabus

The syllabus should adequately address the intended learning outcomes. At the same time, overcrowding of the syllabus should be avoided.

### Note 3: Teaching/Learning Methodology

This section should include a brief description of the teaching and learning methods to be employed to facilitate learning, and a justification of how the methods are aligned with the intended learning outcomes of the subject.

#### Note 4: Assessment Method

This section should include the assessment method(s) to be used and its relative weighting, and indicate which of the subject intended learning outcomes that each method is intended to assess. It should also provide a brief explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.

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