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	ABCT4709					
Subject Title	PROJECT					
Credit Value	6					
Level	4					
Pre-requisite	All Level 1 to Level 3 core compulsory subjects					
Objectives	The project is related to the programme of study covered by the Course. The aims of the project are to promote independent and creative thinking, and to train students to develop the academic and practical skills to define, investigate, analyses and solve a scientific/technical problem. The project may involve a critical assessment, analysis and review of the information collected from the literature and internet on an assigned problem in analytical chemistry. The project may include some field work or experimental study on selected topics.					
Intended Learning Outcomes (Note 1)	 Upon completion of the subject, students will be able to: conduct literature search and critically assess the information; demonstrate the ability in carry out analytical research work independently; identify and solve a scientific/technical problem and select appropriate analytical methodologies to solve problems; design and conduct experiments as well as to analyze and interpret data; manage and organize time efficiently; write essay and laboratory report and present results orally in an effective, skilful and professional manner. 					
Subject Synopsis/ Indicative Syllabus (Note 2)	A study of an assigned problem in analytical chemistry. The study consists of literature survey and an investigation. The investigation should include a research element and may include field work or experimental study on topics in analytical chemistry.					
Teaching/Learning Methodology (Note 3)	The project may involve a critical assessment, analysis and review of the information collected from the literature and internet on an assigned problem in analytical chemistry. The project should an investigation with research element and may include field work or experimental study in the selected topics The topic could be related to chemical analysis on various classes of chemical compounds, development of experimental methods/products/equipment for chemical testing. There will be a few lectures to brief the students on issues involving the developing appropriate analytical methodologies for specific problems. A problem-based learning approach will be employed. Each student registered in the project will be supervised by a project supervisor, who is normally a member of the academic, teaching or technical staff. With guidance from the project supervisor, each student should propose his/her own topic of					

	investigation. The supervisor's major role is to provide advice and guidance to the student throughout the development of the project. However, the supervisor shall make sure that the guidance leaves the student an ample scope to demonstrate initiative for thinking and working independently and creatively. Each student is required to submit a proposal, a final written report and to deliver an oral presentation.									
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Inter outc (Ple	nded comes ase ti	led subject learning nes to be assessed e tick as appropriate)					
(Note 4)	 Project preparation and efficient planning, organization, and execution of the project 	15	1	2 √	3 √	4	5 √	<u>6</u> √		
	2. Project outcomes: understanding of the topic, logical thinking and analysis, critical review and comments, interpretation and conclusions	60	V	\checkmark	\checkmark	V	\checkmark	\checkmark		
	3. Written report (organization, style, clarity, fluency, effectiveness, grammar and spelling)	15	\checkmark		V		\checkmark			
	4. Oral presentation and response to questions	10	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
	Total	100 %								
	Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:The performance of the student will be assessed during the course of the project. The project is assessed by the approach of work, achievement of proposed objectives, planning and execution of work, quantity and quality of reviewed information, interpretation and analysis of results and presentation of results. The student's ability to write essay report and present results orally in an effective, skilful and professional manner will be assessed based on the final written report and oral presentation.									
Student Study Effort Expected	Class contact:									
	Project execution and investigation				204 Hrs.					
	Other student study effort:									
	Writing proposal and final report				40 Hrs.					
	Preparing presentation Total student study effort				8 Hrs.					
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Reading List and	
References	