

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT4913
<b>Subject Title</b>	Integrated Capstone Project
<b>Credit Value</b>	6
<b>Level</b>	4
<b>Normal Duration</b>	2-semester
<b>Pre-requisite / Co-requisite/ Exclusion</b>	<b>Pre-requisite:</b> LGT2106 Principles of Operations Management <b>Exclusion:</b> Any other equivalent capstone project
<b>Objectives</b>	<p>The objectives of this subject are to:</p> <ul style="list-style-type: none"> <li>• provide a student with the opportunity to apply and integrate the knowledge of artificial intelligence and data analytics (AIDA) to his/her discipline in the Departmental Scheme.</li> <li>• develop the capabilities of a student in analyzing and solving complex and possibly real-life problems using AIDA.</li> <li>• train students with skills on systematic development and documentation of a significant piece of work.</li> </ul>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <p><u>Professional/academic knowledge and skills</u></p> <ol style="list-style-type: none"> <li>a. conduct literature surveys to locate materials and sources relevant to the selected problem area in a specific discipline in the Departmental Scheme;</li> <li>b. understand the materials obtained and connect the materials with the problem to be solved using AIDA knowledge and skills;</li> <li>c. define and specify the problem precisely;</li> <li>d. assimilate and apply the learnt knowledge to generate good solutions to the problem;</li> <li>e. think critically the formulation of alternative models and solutions to the problem, in the analysis of approaches to the solution and their implementation; and</li> <li>f. evaluate the final outcome in an objective manner;</li> </ol> <p><u>Attributes for all-roundedness</u></p> <ol style="list-style-type: none"> <li>g. improve presentation and communication skills via oral presentation;</li> <li>h. enhance technical report writing skills with proper organization of materials;</li> <li>i. develop the ability to learn independently and to find/integrate information from different sources required in solving real-life problems;</li> <li>j. manage the project efficiently and effectively through the supervision of supervisor(s); and</li> <li>k. work collaboratively with related parties (e.g. vendors, sponsor company, technical support staff, team-partners, research students, etc.).</li> <li>l. recognise the need for continual learning and self-improvement in the context of their respective subject disciplines, and be able to plan, manage and evaluate their own learning in pursuit of self-determined goals.</li> </ol>



<b>Student Study Effort Expected</b>	Class contact:	
	▪ Discussions with supervisor	25 Hrs.
	▪ Laboratory	15 Hrs.
	▪ Seminar	12 Hrs.
	Other student study effort:	
	▪ Carry out the research project	118 Hrs.
	▪ Presentation and report preparation	80 Hrs.
	Total student study effort	252 Hrs.
<b>Reading List and References</b>	<p><b><u>Recommended Textbooks</u></b></p> <p>There will be no specific text for this subject, however students will be required to read all assigned readings, and utilize all previous texts from the BBA programme as reference as necessary. Selected articles on various aspects of Business, Business Planning, Proposal Writing and Research Methodology are used as supplementary texts.</p> <p>Kumar, R. (2019), <i>Research Methodology: A Step-by-step Guide for Beginners</i>, 5<sup>th</sup> ed., Sage Publications Ltd.</p> <p>Leedy, P.D., Ormrod, J.E., and Johnson, L.R. (2021), <i>Practical Research: Planning and Design</i>, 12<sup>th</sup> ed., Pearson.</p> <p>Pearce, J., and Robinson, R. (2015), <i>Strategic management: Planning for Domestic &amp; Global Competition</i>, 14<sup>th</sup> ed., McGraw Hill.</p> <p>Saunders, M.N.K., Lewis, P., and Thornhill, A. (2019). <i>Research Methods for Business Students</i>, 8<sup>th</sup> ed., Pearson.</p>	