

## The Hong Kong Polytechnic University

### Subject Description Form

<b>Subject Code</b>	DSAI6103
<b>Subject Title</b>	Guided Study on Research Topics in Machine Learning
<b>Credit Value</b>	3
<b>Level</b>	6
<b>Pre-requisite / Co-requisite/ Exclusion</b>	Nil
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• To broaden students' knowledge in advanced machine learning methods through literature searching in related fields.</li> <li>• To enhance student's writing and presentation skill through their own research work or topics of their interests.</li> </ul>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <p>(a) acquire knowledge and awareness of the latest advances in research development in machine learning from literature searching in their respective fields.</p> <p>(b) improve skills in writing and presenting collective materials on current topics of interests.</p>
<b>Subject Synopsis/ Indicative Syllabus</b>	<ul style="list-style-type: none"> <li>• Students must hand in the completed guided study report to supervisor with adequate of related literature references.</li> <li>• Students must submit a short report and present their case study to examiners.</li> <li>• Students should consult supervisor regularly about the progress of the literature reviewing progress.</li> </ul>
<b>Teaching/Learning Methodology</b>	<p>Meet assigned supervisor regularly</p> <p>Hand in reports with full list of references</p>

<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				
			a	b			
	Literature report	40	✓	✓			
	Oral examination	60	✓	✓			
	Total	100 %					
	<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Supervisor will go through the literature report and check the references and give a final grade to the literature report.</p> <p>Supervisor will invite at least one examiner to attend and grade the oral examination.</p>						
<b>Student Study Effort Expected</b>	Student contact:						
	Individual consultation		10 Hrs.				
	Other student study effort:						
	• Literature search		70 Hrs.				
	• Report writing		40 Hrs.				
	Total student study effort		120 Hrs.				
<b>Reading List and References</b>	To be recommended by supervisor.						