Course Code & Title:	COMP8505 - Adva	COMP8505 - Advanced Topics in Language Models					
Semester:	Тwo	Two Academic Year: 2024-25					
This is a Graduate Course	. MPhil/PhD students i	in the Department of Con	nputer Science should r	ead the Coursework Requi	rement.		
Instructor(s):	Prof. L KONG	Prof. L KONG					
Syllabus:	processing (NLP) Students will delv these models. The curriculum in of recent researc DALL-E are also k By critically evalu	This advanced course in language models provides a comprehensive exploration of the latest techniques and approaches in natural language processing (NLP) and large language models (LLMs). Students will delve into cutting-edge neural architectures, state-of-the-art training and inference algorithms, and the practical applications of these models. The curriculum includes hands-on experience with leading pre-trained models such as BERT, GPT-4, T5, PaLM, and LLaMA, alongside an analysis of recent research and innovations in the field. Ethical considerations, bias mitigation, and the integration of multimodal models like CLIP and DALL-E are also key components. By critically evaluating different language modeling approaches and developing independent research projects, students will gain the skills necessary to contribute to advanced NLP and LLM research and applications.					
Topics:	-	-					
Pre-requisites:	-	-					
Compatibility:	-						
Instructors' website:	https://ikekonglp.	https://ikekonglp.github.io/					
Assessment:	 In-course assess 	In-course assessment					
	Date	Start Time	End Time	Venue	Remarks		
	Monday	14:30	17:20	HW312			
Timetable:							
	-	Teaching Period: Jan 20 - May 3, 2025 Reading Week: Mar 10 - 15, 2025					