THE CHINESE UNIVERSITY OF HONG KONG

Teaching Development and Language Enhancement Grant for 2022-25 Triennium

List of General Teaching Development Projects (2nd Call)

No.	Project Title	Principal Supervisor(s) and Faculty/ Department/ Unit	Co-supervisor(s) and Faculty/ Department/ Unit	Theme(s)	Focus Area(s)	Project Duration	Amount Awarded (HK$)
University-level Projects							
Centre for Learning Enhancement And Research (CLEAR)							
1	AI at the Forefront: Charting the AI Landscape at CUHK	Professor CHUN Ka Wai Cecilia (Centre for Learning Enhancement And Research) Professor LAM Lai Chuen Paul (Centre for Learning Enhancement And Research)	Professor TANG Lai Yiu Eunice (Centre for Learning Enhancement And Research) Dr. YEUNG Ping Hei Steven (English Language Teaching Unit) Professor LEE Wing Yan Vivian (Centre for Learning Enhancement And Research (CLEAR))	- harnessing innovative & breakthrough technologies - development of pedagogical research - enhancing global readiness of students	- survey research and evaluation - pedagogy - curriculum design	11 months (1 June 2024 - 30 April 2025)	410,249
2	AI in Academia: Training and Capacity Building for Teachers in Higher Education	Professor CHUN Ka Wai Cecilia (Centre for Learning Enhancement And Research) Professor LAM Lai Chuen Paul (Centre for Learning Enhancement And Research)	Dr. WONG Kwong Cheong (Data Science and Policy Studies Programme)	- development of professional and generic skills - harnessing innovative & breakthrough technologies - addressing students' special education needs	- professional development - pedagogy - teaching and learning activities	11 months (1 June 2024 - 30 April 2025)	241,348
3	Developing Academic Staff Members' Pedagogic Research Engagement at CUHK	Professor LAM Lai Chuen Paul (Centre for Learning Enhancement And Research)	Ms. LIN Hiu Yi Vienne (Centre for Learning Enhancement And Research)	- development of pedagogical research - development of community-engaged learning - encouraging inter-institutional	- professional development - pedagogy - teaching and learning activities	1 year (1 May 2024 - 30 April 2025)	314,077
4	Integrating AI in Assessment for Learning Enhancement & Grading Efficiency	Dr. LAM Yiu Man Otis (Centre for Learning Enhancement And Research)	Professor LAM Lai Chuen Paul (Centre for Learning Enhancement And Research) Professor CHAN Ho Yin Edwin (School of Life Sciences) Dr. WRIGHT John Alexander (Department of Statistics) Dr. CHAN Ka Long Donald (Department of Chemistry) Dr. LI Ming Kenneth (Office of University General Education)	- harnessing innovative & breakthrough technologies	- assessment - quality assurance - student engagement and student learning needs	1 year (1 May 2024 - 30 April 2025)	485,378
5	Postgraduate Academic Advising Support at CUHK	Professor LEE Wing Yan Vivian (Centre for Learning Enhancement And Research)	Professor SO Man Cho Anthony (Graduate School Office) Professor KING Ronnel Bornasal (Faculty of Education)	- addressing students' special education needs - promotion of attitudes and values - development of professional and generic skills	- academic advising - students with special education needs (SEN) - student learning and experience	8 months (1 September 2024 - 30 April 2025	400,000

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Office of University General Education							
6	Developing an AI Argument Recognition Tool for a KeyWord-in-Context-based Method to Assess Students' Understanding of Specific Concepts	Dr. COLANERO Klaus John Charles (Office of University General Education) Dr. LO Chun Yeung Edwin (Office of University General Education) Dr. QURESHI Umair Mujtaba (Department of Computer Science and Engineering) Dr. KAM Ho Chuen Calvin (Department of Computer Science and	Dr. LAI Chi Wai Kevin (General Education Foundation Programme) Professor CHUN Ka Wai Cecilia (Centre for Learning Enhancement And Research)	- development of pedagogical research - harnessing innovative & breakthrough technologies	- assessment - general education - pedagogy	1 year (1 May 2024 - 30 April 2025)	546,989
Others							
7	Enhancing Follow-up Learning Experience by Leveraging "Topic Guidance Enquiry Framework" on Guided NLP Model for Tailored Student Engagement	Mr. YIP Kim Fung Frankie (Department of Electronic Engineering) Professor SHU Ching Tat Chester (Department of Electronic Engineering)	Dr. HAN Dongkun (Department of Mechanical and Automation Engineering) Dr. YUEN Chi Lok Andrew (Department of Decisions, Operations and Technology) Dr. LO Chui Man Cat (Department of Chemistry) Dr. LI Jiawei (Department of Translation)	- development of pedagogical research - deepening VTL adoption - students taking ownership of their learning - encouraging inter-institutional collaborations - engagement of students as partners - harnessing innovative & breakthrough technologies	- student engagement and student learning needs - development of framework/criteria to facilitate collaboration between the formal- and non-formal learning - student learning and experience - teaching and learning activities - eLearning	1 year (1 May 2024 - 30 April 2025)	642,288
Faculty-level Projects							
Faculty of Education							
8	Empowering Global Student Teachers for Transformative Teaching and Learning in a Globalized World	Dr. WAN Wai Yan Sally (Department of Curriculum and Instruction)	Professor WITT Allison (College of Education, University of Illinois, Urbana-Champaign, USA) Professor LEUNG Kit Ying Suzannie (Department of Curriculum and Instruction) Professor BAI Barry (Department of Curriculum and Instruction) Professor CHUI Pui Yi Apple (School of Life Sciences) Dr. NG Chung-On Steven (MoCC) Dr. CHAN Sin Yu Cherry (CityU) Ms. LI Isabel (Ocean Park Hong Kong) Ms. CHEUNG Joe (Ocean Park Hong Kong)	- deepening VTL adoption - contribution to the 17 SDG - enhancing global readiness of students - internationalization at home - development of community-engaged learning - encouraging inter-institutional collaborations - harnessing innovative & breakthrough technologies - promoting diversity of language learning - encouraging students to make contributions - promotion of attitudes and values - development of professional and generic skills - students taking ownership of their learning - development of pedagogical research - engagement of students as partners - facilitating students to cross knowledge boundaries	- student learning and experience - pedagogy - experiential learning	11 months (1 June 2024 - 30 April 2025)	244,800

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9	Enhancing the Teaching and Learning of Engineering Research Writing with a Specialised Corpus and Corpus-informed Resources	Dr. YEUNG Ping Hei Steven (English Language Teaching Unit)	Professor GONZALES Wilkinson Daniel Wong (Department of English)	- development of professional and generic skills - students taking ownership of their learning - deepening VTL adoption - engagement of students as partners - development of pedagogical research	- language enhancement - student engagement and student learning needs - eLearning (including multimedia learning, technology-enhanced learning)	1 year & 2 months (1 May 2024 - 30 June 2025)	465,371
Faculty of Engineering							
10	Hands-on Robotics Course Modules for Interactive Self-Learning	Professor LAU Tat Ming Darwin (Department of Mechanical and Automation Engineering)	Professor CHUN Ka Wai Cecilia (Centre for Learning Enhancement And Research) Professor LEE Ho Man Jimmy (Department of Computer Science and Engineering) Professor REN Hongliang (Department of Electronic Engineering)	- development of pedagogical research - deepening VTL adoption - harnessing innovative & breakthrough technologies - encouraging inter-institutional collaborations	- eLearning (including multimedia learning, technology-enhanced learning) - student learning and experience - experiential learning	11 months (1 June 2024 - 30 April 2025)	671,439
Faculty of Law							
11	Teaching Avatars: AI-powered Video Summaries for Lecture-based Courses	Professor HARGREAVES Stuart Andrew (Faculty of Law)	--	- deepening VTL adoption - harnessing innovative & breakthrough technologies - development of pedagogical research - engagement of students as partners - students taking ownership of their learning	- eLearning - curriculum design - student learning and experience	10 months (1 July 2024 - 30 April 2025)	52,050
Faculty of Medicine							
12	Development of AI-powered Virtual Patients for Healthcare Education	Professor WONG Cho Lee Jojo (The Nethersole School of Nursing)	Professor CHENG Ho Yu (The Nethersole School of Nursing) Professor CHONG Yuen Yu Connie (The Nethersole School of Nursing) Dr. YEUNG Chi Yan Cheryl (The Nethersole School of Nursing) Mr. CHIM Wong Kit Roy (The Nethersole School of Nursing) Professor KWOK Yan Yan Jojo (School of Nursing, HKU) Professor CHUNG Joyce (School of Nursing, PolyU) Dr. TANG Mei Kuen Florence (School of Biomedical Sciences) Dr. ZHOU Rui Keary (School of Pharmacy) Mr. SIU Sheung Yuen Shane (School of Chinese Medicine) Dr. SEE Christopher (School of Biomedical Sciences)	- development of professional and generic skills - development of pedagogical research - deepening VTL adoption - encouraging inter-institutional collaborations	- professional development - pedagogy - eLearning	1 year & 0.5 months (15 April 2024 - 30 April 2025)	925,464

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13	Development of Virtual Interactive Micro-modules on Public Health Crisis Management and Risk Communication	Professor POON Kwok Ming Paul (The Jockey Club School of Public Health and Primary Care, Faculty of Medicine)	Professor CHUNG Roger Yat Nork (The Jockey Club School of Public Health and Primary Care, Faculty of Medicine) Professor WONG Ka Man Carmen (The Jockey Club School of Public Health and Primary Care, Faculty of Medicine)	- deepening VTL adoption - harnessing innovative & breakthrough technologies - development of professional and generic skills - enhancing global readiness of students - encouraging students to make contributions - contribution to the 17 SDG	- eLearning (including multimedia learning, technology-enhanced learning) - online/blended teaching and assessment - professional development	11 months (1 June 2024 - 30 April 2025)	299,382
14	Virtual Teaching Series: Faculty Development in Managing Complexities in Health Professional Education	Dr. LEE Sau Wa Joyce (Kai Chong Tong Clinical Skills Learning Centre, Faculty of Medicine) Professor WONG Ka Man Carmen (Faculty of Medicine)	Dr. LAU Sin Nga Ann (School of Biomedical Sciences) Professor CHOW Ka Ming (The Nethersole School of Nursing) Professor TO Kin Wah Kenneth (School of Pharmacy)	- development of professional and generic skills - promotion of attitudes and values - deepening VTL adoption	- professional development - teaching and learning activities - pedagogy	1 year & 6 months (1 May 2024 - 30 October 2025)	591,360
Faculty of Science							
15	Free Generative AI for All: Investigating the Impact of AI in STEM Education	Professor YAN Yangqian (Department of Physics) Dr. LIU Kin Yat (Department of Statistics)	Professor DAI Ben (Department of Statistics) Dr. LEUNG Po Kin (Department of Physics) Professor ONG Hock Chun Daniel (Department of Physics)	- harnessing innovative & breakthrough technologies - deepening VTL adoption - students taking ownership of their learning - enhancing global readiness of students	- eLearning (including multimedia learning, technology-enhanced learning) - student learning and experience	10 months (1 July 2024 - 30 April 2025)	461,660
Faculty of Social Science							
16	Art Technology Design and Culture – Robotics and Cinematography for Architecture, Journalism and Communications Students	Professor FINGRUT Adam (School of Architecture)	Professor FUNG Ying Him Anthony (School of Journalism and Communication) Professor POON Tat Pui Eric (School of Journalism and Communication)	- facilitating students to cross knowledge boundaries - harnessing innovative & breakthrough technologies - students taking ownership of their learning - enhancing global readiness of students	- development of framework/criteria to facilitate collaboration between the formal- and non-formal learning - student learning and experience - others (please specify): Innovative Technology Exploration as Substrate for Design Thinking	10 months (30 June 2024 - 30 April 2025)	879,418
17	Preparing for An Inclusive Future: An Age-Responsive Learning Framework for Adapting to Rapid Population Ageing	Professor MO Kar Him (School of Architecture)	JIAN, Yi Izzy (EdUHK)	- encouraging inter-institutional collaborations - contribution to the 17 SDG - facilitating students to cross knowledge boundaries - encouraging students to make contributions - promotion of attitudes and values - enhancing global readiness of students - development of community-engaged learning - development of professional and generic skills	- experiential learning - offering community-engaged courses/ activities - professional development	11 months (1 June 2024 - 30 April 2025)	611,895

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Department-level Projects							
Faculty of Arts							
18	Classics and Cultural Landscapes: Prioritizing Hong Kong's Classical Literature Corpus and Chinese Opera Criticism through a Multidisciplinary Digital Scholarship	Professor SIU Chun Ho (Department of Chinese Language and Literature)	--	- facilitating students to cross knowledge boundaries - development of professional and generic skills - students taking ownership of their learning	- eLearning (including multimedia learning, technology-enhanced learning) - teaching and learning activities - language enhancement	11 months (1 June 2024 - 30 April 2025)	294,840
19	Revolutionizing Elementary Japanese Education: Harnessing the Power of Artificial Generative Intelligence (AGI)	Professor HO Chi Ming (Department of Japanese Studies)	Dr. PUN Man On Simon (School of Science and Engineering, The Chinese University of Hong Kong (Shenzhen))	- deepening VTL adoption	- eLearning (including multimedia learning, technology-enhanced learning) - teaching and learning activities - student learning and experience	1 year (1 May 2024 - 30 April 2025)	107,984
Faculty of Medicine							
20	Developing a Smartphone-Based, Interactive, and Experiential-learning Oriented Direct Ophthalmoscopy Training Module for Medical Students that Consists of Demonstration Videos, Simulation Practice, Self-Evaluating Instruments, and Innovative Assessment	Professor CHAN Pui Man Poemen (Department of Ophthalmology and Visual Sciences) Professor CHAN Yan Yu Julia (Department of Ophthalmology and Visual Sciences)	Professor BRELÉN Mårten Erik (Department of Ophthalmology and Visual Sciences) Professor YAM Cheuk Sing Jason (Department of Ophthalmology and Visual Sciences) Professor CHEN Lijia Guy (Department of Ophthalmology and Visual Sciences) Professor CHONG Kam Lung Kelvin (Department of Ophthalmology and Visual Sciences) Professor SZETO Ka Ho Simon (Department of Ophthalmology and Visual Sciences) Professor ZHANG Xiujuan (Department of Ophthalmology and Visual Sciences) Professor CHAN David Yuen Chung (Division of Neurosurgery)	- development of professional and generic skills - addressing students' special education needs - development of pedagogical research - harnessing innovative & breakthrough technologies - students taking ownership of their learning - promotion of attitudes and values - facilitating students to cross knowledge boundaries - deepening VTL adoption - enhancing global readiness of students - encouraging students to make contributions - development of community-engaged learning - encouraging inter-institutional collaborations - contribution to the 17 SDG - engagement of students as partners - internationalization at home	- student engagement and student learning needs - experiential learning - pedagogy	1 year (1 July 2024 - 30 June 2025)	499,659
21	Innovative Virtual Immersive Simulation to Enhance Pharmacy Student's Practical Lab Learning Experience: electronic Practical Simulator (e-PS) platform	Dr. CHATTERJEE Lipika Alok (School of Pharmacy)	Dr. TANG Mei Kuen Florence (School of Biomedical Sciences) Professor LAM Lai Chuen Paul (Centre for Learning Enhancement And Research) Ms. LIN Hiu Yi Vienne (Centre for Learning Enhancement And Research) Mr. LAI Chung Hin Kenneth (Centre for eLearning Innovation and Technology)	- development of professional and generic skills - deepening VTL adoption - students taking ownership of their learning - addressing students' special education needs	- eLearning (including multimedia learning, technology-enhanced learning) - student engagement and student learning needs -students with special education needs (SEN)	11.5 months (20 May 2024 - 30 April 2025)	490,736

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Faculty of Science							
22	Elevating Undergraduate Chemistry: Data Analysis with AI's Machine Learning	Dr. MAK Kin Wah Kendrew (Department of Chemistry)	Professor PENG Xiaoshui (School of Science and Engineering, CUHK (SZ))	- harnessing innovative & breakthrough technologies - facilitating students to cross knowledge boundaries - engagement of students as partners - encouraging inter-institutional collaborations - development of professional and generic skills	- eLearning - teaching and learning activities - professional development - engagement of students in teaching and teaching development	1 year (1 May 2024 - 30 April 2025)	270,720
23	Development of Flashcard E-learning Language Tool with the Aid of AI Chatbot	Dr. HAU Chun Kit Sam (Department of Chemistry)	Professor NGAI To (Department of Chemistry) Professor LI Hung Wing (Department of Chemistry)	- students taking ownership of their learning - development of pedagogical research - deepening VTL adoption	- language enhancement - eLearning - teaching and learning activities	11 months (1 June 2024 - 30 April 2025)	322,058
24	Virtual Project Supervisor for Supporting Supervision of Statistics Projects	Dr. CHAN Chun Man (Department of Statistics) Dr. CHEUNG King Chau (Department of Statistics) Dr. WONG Tat Wing (Department of Statistics)	Dr. WONG Kin Chi (Centre for Learning Enhancement And Research)	- harnessing innovative & breakthrough technologies - deepening VTL adoption	- eLearning (including multimedia learning, technology-enhanced learning) - student engagement and student learning needs - teaching and learning activities	1 year & 3 months (1 May 2024 - 30 July 2025)	244,875
Faculty of Social Science							
25	Enhancing Social Work Students' Clinical Expertise Through Creative Bricks: The BUILD Model	Dr. CHIU Renee (Department of Social Work)	Professor LEUNG Yuk Ki Timothy (Department of Social Work)	- development of professional and generic skills - engagement of students as partners - students taking ownership of their learning - promotion of attitudes and values	- professional development - student engagement and student learning needs - teaching and learning activities	10 months (1 July 2024 - 30 April 2025)	283,661
26	From Immersive Learning to Real-life Experiential Practice: Social Groupwork Education	Dr. LAW Yee Man Moon (Department of Social Work)	Dr. SO Yuk Yan (Department of Social Work)	- development of professional and generic skills - deepening VTL adoption - harnessing innovative & breakthrough technologies	- pedagogy - eLearning (including multimedia learning, technology-enhanced learning) - experiential learning	1 year (1 May 2024 - 30 April 2025)	240,480
27	Gimme Shelter	Professor SMITH Adam Jasper (School of Architecture)	--	- students taking ownership of their learning - encouraging inter-institutional collaborations - development of community-engaged learning - development of pedagogical research - engagement of students as partners - encouraging students to make contributions	- student learning and experience - experiential learning - student engagement and student learning needs	8 months (1 September 2024 - 30 April 2025)	228,052

January 2025