

List of Large Equipment for Teaching Supported by Areas of Excellence Committee from 2013/14 to 2022/23

Ref.	Dept	Team Leader	Details of Equipment	Year Awarded
1	AAE	Dr Peng Lu	Intelligent and Autonomous Ground Robotic Systems : <ul style="list-style-type: none"> • 2 UR5 Robotic Arms plus Mounting Bracket • 2 Grippers, 2 Force/Torque Sensors, 2 Cameras for both Arms • Indoor AGV with 2Dlidar 	2019/20
2	AAE	Dr Zou Fangxin	White Light Interferometer for Examining Fracture of Metallic and Composite Aircraft Materials (Polytec TopMap Metro.Lab TMS-150)	2020/21
3	AAE	Prof Zhou Limin	Avionics Training System <ul style="list-style-type: none"> • Avionics Instrument • Advanced Avionics System 	2016/17
4	AAE	Dr. NG K.H.	Live, historical, and pseudo weather enhancement module cum high fidelity flight emergency operational advisory aids for the existing A320 flight simulator	2021/22
5	ABCT	Prof Chow Ming-cheung Larry	Biochemical/Molecular Biology Equipment for Teaching include: <ul style="list-style-type: none"> • Tri-carb 3110TR Low Activity Liquid Scintillation Analyzer • Luminescence Spectrometer LS55 • ImageQuant LAS4010 Imaging System • CLARIOstar-Multilabel Plate Reader • AKTA Pure 150M Chromatography System • PC80WX Preparative Ultracentrifuge 	2013/14
6	ABCT	Prof Yu Wing-yiu	Modern Analytical Platform for Preferred Graduate Education in Testing and Certification	2013/14
7	ABCT	Dr Tze Woon Benedict	Energy dispersive X-ray fluorescence spectrometer (EDXRF) for non-destructive elemental analysis	2022/23
8	AP	Prof Kwok Kin-wing	Laboratory Package for Advancing Experimental Teaching of Optoelectronics	2014/15
9	AP	Prof Kwok Kin-wing	Laboratory Package for Experimental Teaching : <ul style="list-style-type: none"> • Optical & Illumination Design Software • Computerized Telescopes 	2015/16
10	AP	Dr Lam Chi-hang	Artificial Intelligence Computing Platform for Applied Physics Students	2020/21
11	AP	Dr Tsang Yuen-hong	Laboratory Kits Specifically Designed to Serve the Educational Purpose of Advanced Optoelectronics	2013/14
12	BME	Dr Hu Xiaoling	Neuro Monitoring Teaching Facility	2015/16

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13	BME	Dr Wong Man Sang	Prosthetic and Orthotic Computer-Aided-Design and Computer-Aided-Manufacture System (P&O CAD/CAM System)	2015/16
14	BME	Prof Zhang Ming	Motion Capture and Analysis System	2015/16
15	BME	Prof Zhang Ming	Pressure Sensing Instrumented Treadmill Equipped Virtual Gait Training and Evaluation System – Zebris Rehawalk	2020/21
16	BME	Prof Zheng Yongping	Ultrasound Scanner - Multiwave Ultrafast Imaging and ShearWave Elastography Ultrasound System 220V	2015/16
17	BEEE	Dr Huang Xinyan	Analytical Platform for Material Flammability and Fire Emissions for Fire and Safety Engineering Education	2020/21
18	BEEE	Dr Jiang Liming	A Radiant Heat Exposure System for Demonstrating Thermal Performance and Fire Safety in the Built Environment	2020/21
19	BEEE	Dr Wei Minchen	Full-field GlareTest System	2019/20
20	BEEE	Dr. Xinyan HUANG	Multi-sensor Breathing and Sweating Thermal Manikin for Fire Environment	2022/23
21	CEE	Dr Chan Tak-ming	10,000kN Computer-Electro-Hydraulic Servo-Controlled Multi-purpose Testing System	2020/21
22	CEE	Dr Duan Huanfeng	Emriver Em4 Geomodel (Em4)	2020/21
23	CEE	Prof William Lam	Compact Driving Simulator (OKTAL CDS-650 cockpit with 3 HD LED display, real steering wheel, driver seat, pedals and gearbox) and SCANer Driving Simulation Package	2015/16
24	CEE	Dr Lai Sui Kai	Beamforming System with Acoustical Array, and its Accessories for the Noise Source Mapping of Various Modes of Transportation	2015/16
25	CEE	Dr Leng Zhen	Advanced Testing Specimen Fabrication System for Construction Material / Structure Performance Characterization	2017/18
26	CEE	Dr Leu Shao-yuan Ben	Multi-scale Analytical Platform for Organic Waste and Polymers for Civil and Environmental Education	2017/18
27	CEE	Dr Leu Shao-yuan Ben	Integrated Continuous Flow Reactor with Upgraded Liquid Chromatography for Environmental Engineering Education	2020/21
28	CEE	Prof Poon Chi-sun	Portable Factory Industrial Hygiene Analyzers and Accessories	2015/16
29	CEE	Dr Tsang Chiu-wa Dan	Particle Characterization Suite which consists of : • BET surface area analyzer • Laser diffraction particle size analyzer	2015/16
30	CEE	Dr Wang Yuhong	UTM Servo-Hydraulic and Servo-Pneumatic Universal Testing Machine with Accessories	2015/16
31	CEE	Prof Zhu Songye	Six-degree-of-freedom Vibration Simulation Platform	2020/21
32	CEE	Prof. ZHU Songye	Three-dimensional Spatial Displacement Field Measurement System	2021/22
33	COMP	Dr Chung Fu Lai, Korris	VizMove Virtual Reality (VR) System: Working VR Combined with Projection VR	2015/16

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34	EE	Dr Chan Ka Wing	Multi-User Multi-Domain Real-Time Hardware-in-Loop Simulation Platform for Heavy Current Teaching of Power Systems, Power Electronics and Drive, and Machine	2015/16
35	EE	Prof Tam Hwa-yaw	Equipment for Heavy-Current Teaching Laboratory and High-Voltage Teaching Laboratory	2015/16
36	EIE	Dr. HU Haibo	Cyber Range Simulator System for Security Training	2021/22
37	ENGL	Prof Hu Guangwei	Multi-media Laboratories at Room AG313 and Room AG314	2020/21
38	HTI	Dr Chan Tai Po Charles	Model 6600 PLUS TLD Card Reader Instrument (with built-in Internal 90Sr/Y Irradiator for the 6600 PLUS)	2015/16
39	HTI	Dr Chan Tai Po Charles	Complete Body Phantom System for Computerized Tomography	2015/16
40	HTI	Prof Cai Jing	RayStation – Deep Learning Computer System for Radiotherapy Treatment Planning and Medical Images Processing	2020/21
41	HTI	Dr Huang Chien Ling	Platelet/Whole Blood Optical Lumi-Aggregometer	2015/16
42	HTI	Dr Law Ka-wah Helen	Digital Radiography (DR) X-ray System	2019/20
43	HTI	Dr Lin Liang-ting	The Analytical Bundled Equipment for Radioisotope Qualitative and Quantitative Measurement	2020/21
44	HTI	Dr Siu Kit Hang Gilman	Matrix-Assisted Laser Desorption/Ionization Time-Of-Flight (MALDI-TOF) MS System for Microbial Identification	2020/21
45	HTI	Dr To Tony	Real-time Quantitative Polymerase Chain Reaction Systems (LC480 and LC96)	2015/16
46	HTI	Dr Tse Kai-hei	High-Capacity Pathology Whole Slide Scanner – Hamamatsu NanoZoomer s210	2020/21
47	HTI	Prof Ying Michael	Sophisticated Imaging and Advanced Intelligent Ultrasound System	2020/21
48	HTI	Miss Jan Oi Chun LEE	Integrated clinical chemistry and immunoassay analyser	2022/23
49	IC	Dr Michael Leung	Aircraft Maintenance Training Resource Kits	2018/19
50	IC	Dr Wai Hon Wah	Immersive Systems for Teaching	2021/22
51	IC	Dr Wai Hon Wah	Joint Central Robotic Teaching Facility	2021/22
52	IC	Dr Wai Hon Wah	Autonomous Mobile Manipulator Learning Kit	2020/21
53	IC	Dr Wai Hon Wah	Mobile Immersive System for Teaching	2022/23
54	ISE	Dr Chan Ching Yuen	Intelligent Robot Arms which consist of <ul style="list-style-type: none"> • a Collaborative Dual Arm Robot (ABB YuMi® IRB 14000) and • an Intelligent Fast Teaching and Safety Robot (KUKA LBR iiwa 14 R852) 	2015/16
55	ISE	Dr Chan Ching Yuen	SCHUNK Servo-electric 5-Finger Gripping Hand SVH and SIEMENS RobotExpert	2015/16
56	ISE	Prof Chan Felix	Edda Systems – Air Traffic Control (ATC) Simulators	2015/16
57	ISE	Dr Lee KM Carman	Smart Manufacturing Training System	2020/21

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58	ISE	Dr Tang Yuk Ming	Cave Automatic Virtual Environment (CAVE) System	2015/16
59	ISE	Dr. Xusheng YANG	Creep Testing System Kappa 50 SS-CF	2022/23
60	ITC	Prof Kan Chi-wai	Laboratory Package for Advanced Treatment on Fabric Surface in Experimental Teaching which consist of a 2-roll horizontal padder and a 2-roll vertical padder.	2020/21
61	ITC	Miss Liu Nico	3D Body Scanning System - Authroscan Bodyscan	2020/21
62	ITC	Dr Liu Rong	Laboratory Teaching Package for Advancing Design and Prototyping of High Performance Apparel and Activewear	2020/21
63	ITC	Dr Yick Kit Lun	Laboratory Package for Advancing Experimental Teaching of High Performance Apparel and Activewear	2020/21
64	ITC	Dr. MOK Tracy	Twine Solution TS-1800 Digital Thread and Yarn Dying System	2021/22
65	LMS	Mr Brian Sun	Marine Navigation and GMESS Simulators which consists of :	2016/17
66	LSGI	Prof Wong Man-sing	GNSS-embedded Backpack-LiDAR and UAV-LiDAR	2020/21
67	ME	Dr Henry KH Chu	Robot System which consists of (i) 4 sets of Kuka YouBot, and (ii) 4 sets of Standard Research Systems (SR785)	2015/16
68	ME	Dr Hsu Lita	Teaching Equipment for Flight Mechanics, Vehicle Guidance, Navigation and Control (GNC) <ul style="list-style-type: none"> • Aircraft Satellite Navigation System • Light Detection and Ranging Radar • Vision-based Motion Capture System 	2016/17
69	ME	Dr Ruan Hai Hui	Flight Simulator	2015/16
70	ME	Dr Ruan Hai Hui	Dynamic and Fatigue Test System	2015/16
71	ME	Dr. AN Liang	Renewable Energy Training System	2021/22
72	ME	Prof. Zuankai WANG	Platform for Characterizing Dynamic Interfacial and Transport Phenomena	2022/23
73	RS	Dr Shirley Ngai	Comprehensive platform for diagnosing respiratory diseases and sleep disordered breathing that consist of: <ul style="list-style-type: none"> • Body plethysmography with comprehensive respiratory assessment for diagnosis of respiratory diseases and respiratory function evaluation (Human) • Portable polysomnography (PSG)-Human) • Flexivent and add-on module (animal) 	2015/16
74	RS	Dr William Tsang	Smart EquiTest System	2015/16
75	RS	Prof Margaret Mak	Mobile Technology Hub for Gait Rehabilitation	2019/20
76	SN	Dr Angela Chan	CAE Healthcare HPS-010 Human Patient Simulator	2015/16
77	SN	Dr John Yuen	Stereoscopic Anatomy Visualizer	2015/16

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78	SN	Dr Angela Chan	High Fidelity Patient Simulators in Simulted Wards	2019/20
79	SN	Dr Kitty Chan	Virtual Hospital	2019/20
80	SN	Dr. Betty CHUNG	MetaHealth	2022/23
81	SO	Dr Andrew KC Lam	High Resolution Optical Coherence Tomography (OCT) Angiography System (Zeiss Cirrus HD-OCT-500), Ocular Biometer (Nidek AL-scan) and Specular Microscope (Nidek CEM-530)	2015/16
82	SO	Dr Thomas Lam	SHSOphthalmic System - A revolutionized instrument for high resolution contact lens profiling & scanning	2015/16
83	SO	Dr Andrew KC Lam	Equipment for Advancement in Diagnosis and Management of Dry Eye Disease: <ul style="list-style-type: none"> • iDRA (SBM, Sistemi); • TearLab 2 (Innovasium TearLab Co.); and • Rexion-Eye (Resono Ophthalmic) 	2019/20
84	SO	Dr Andrew KC Lam	Eyesi Slit Lam Simulator - Virtual Reality System	2020/21
85	SO	Dr. TING Patrick	Replacement of obsolete teaching equipment to enhance	2021/22
86	SO	Dr. Kin WAN	An integrated digitalised Binocular Indirect Ophthalmoscope System	2022/23
87	SD & AP	Prof Stephen Wang (SD) & Dr Tsang Yuen Hong (AP)	Equipment for Teaching Industry 4.0 in Design - DOBOT Magician Robotic Arm	2020/21