The University of Hong Kong – Faculty of Engineering Course List 2024/25

Important Notes:

- Please note that the available course list is for reference only. The approval of courses is at the discretion of respective faculty.
 Actual enrolment is subject to the availability of courses, quota and class schedule.
 [The information could be changed without prior notice.]
- 2. Some courses may have special enrolment requirements (e.g. prerequisite). Please contact enggex@hku.hk if additional course information is required.

Course Level	Course Code	Course Title	Offering Semester	Credits
UG	BMED1207	Fundamentals of chemistry and biology for biomedical engineering	2	6
UG	BMED2206	Engineering in biology and medicine	1	6
UG	BMED2301	Life sciences I (Biochemistry)	1	6
UG	BMED2302	Life sciences II (Cell Biology & Physiology)	2	6
UG	BMED2500	Biomedical signals and linear systems	2	6
UG	BMED2600	Biomechanics for biomedical engineering	2	6
UG	BMED2810	Engineering management and society	1 & 2	6
UG	BMED3301	Life sciences III (Physiology)	1	6
UG	BMED3500	Electromagnetics in biomedicine	2	6
UG	BMED3501	Medical imaging	2	6
UG	BMED3600	Biomaterials science and engineering	1	6
UG			2	6
	BMED3603	Statstics and mathematical analysis for biomedical engineering		
UG	BMED4500	Biomedical instrumentation and systems	1	6
UG	BMED4501	Biophotonics	2	6
UG	BMED4505	Advanced bioelectronics	2	6
UG	BMED4506	Quantum technologies in biomedical sciences	2	6
UG	BMED4601	Biomaterials design and applications	1	6
UG	BMED4602	Molecular and cellular biomechanics	1	6
UG	BMED4604	Cell and tissue engineering	2	6
UG	CIVL1105	Environmental engineering	1 & 2	6
UG	CIVL1113	Engineering mechanics & materials	1 & 2	6
UG	CIVL1115	Civil engineering informatics	1 & 2	6
UG	CIVL2102	Engineering geology and rock mechanics	1 & 2	6
UG	CIVL2103	Fluid mechanics	1 & 2	6
UG	CIVL2104	Hydraulics and hydrology	1 & 2	6
UG	CIVL2104	Soil mechanics	1 & 2	6
UG	CIVL2108	Principles of civil engineering management	1 & 2	6
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UG	CIVL2111	Transportation engineering	1 & 2	6
UG	CIVL2112	Structural analysis	1 & 2	6
UG	CIVL2113	Structural design	1 & 2	6
UG	CIVL3103	Construction project management	1 & 2	6
UG	CIVL3107	Environmental impact assessment of civil engineering projects	1	6
UG	CIVL3108	Foundation engineering	1	6
UG	CIVL3112	Prestressed concrete structures	1	6
UG	CIVL3114	Slope engineering	2	6
UG	CIVL3115	Solid and hazardous waste management	2	6
UG	CIVL3116	Steel structures	2	6
UG	CIVL3119	Traffic engineering	1	6
UG	CIVL3120	Transportation infrastructure engineering	2	6
UG	CIVL3121	Water resources engineering	2	6
UG	CIVL3121	Numerical analysis in geotechnical engineering	1	6
UG	CIVL3123	Earth retaining system	1	6
UG	CIVL3131	Geotechnical testing instrumentation and monitoring	2	6
	CIVL3132			,
UG		Ground improvement Environmental gestechnology	1 2	6
UG	CIVL3134	Environmental geotechnology		6
UG	CIVL3138	Advanced theory and design of structures	2	6
UG	CIVL3139	Building information Modelling (BIM) management for civil engineering	2	6
UG	COMP3231	Computer architecture	1	6
UG	COMP3258	Functional programming	2	6
UG	COMP3259	Principles of programming languages	2	6
UG	COMP3270	Artificial intelligence	1 & 2	6
UG	COMP3271	Computer graphics	1	6
UG	COMP3316	Quantum information and computation	2	6
UG	COMP3317	Computer vision	2	6
UG	COMP3322	Modern technologies on World Wide Web	1 & 2	6
UG	COMP3329	Computer game design and programming	2	6
UG	COMP3330	Interactive mobile application design and programming	1	6
UG	COMP3340	Applied deep learning	2	6
UG	COMP3353	Bioinformatics	1	6
UG				
	COMP3354	Statistical learning	1	6
UG	COMP3355	Cyber security	1	6

UG COM UG COM UG COM UG COM UG COM UG COM Graduate Elective COM UG ELEC UG	MP3356 MP3357 MP3358 MP3351 MP3358 MP3361 MP3516 MP8503 MP8505 GC2147 GC2243 GC2245 GC2347 GC2543 GC2544 GC2843 GC2844 GC3142 GC3142 GC3142 GC3142 GC3142 GC3142 GC3143 GC3244 GC3244 GC3244 GC3244 GC3247 GC3244 GC3247	Course Title Robotics Cryptography Distributed and parallel computing Natural language processing Data analytics for IoT Advanced Topics in Visual Analytics Advanced Topics in Language Models Electrical energy technology Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence Control systems II	Offering Semester 1 1 2 2 2 2 2 2 2 1 1 1 1 2 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 2 1 2	Credits 6 6 6 6 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6
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UG COM UG COM Graduate Elective COM Graduate Elective COM Graduate Elective COM UG ELEC	MP3361 MP3516 MP8503 MP8503 MP8505 EC2147 EC2243 EC2245 EC2347 EC2543 EC2544 EC344 EC3141 EC3142 EC3143 EC3144 EC3152 EC3241 EC3243 EC3244 EC3247 EC3243 EC3247 EC3343 EC3244 EC3343 EC3244 EC3247 EC3247 EC3247 EC3247 EC3247	Natural language processing Data analytics for IoT Advanced Topics in Visual Analytics Advanced Topics in Language Models Electrical energy technology Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 2 2 2 1 1 1 1 2 2 1 2 1 2 1 2 1 2 1 2	6 6 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6
UG COM Graduate Elective COM Graduate Elective COM UG ELEC	MP3516 MP8503 MP8503 MP8505 EC2147 EC2243 EC2245 EC2347 EC2543 EC2544 EC2843 EC2844 EC3141 EC3142 EC3142 EC3143 EC3143 EC3144 EC3152 EC3244 EC3244 EC3244 EC3244 EC3247 EC	Data analytics for IoT Advanced Topics in Visual Analytics Advanced Topics in Language Models Electrical energy technology Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 2 2 1 1 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2	6 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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Graduate Elective COM UG ELEC	MP8505 CC2147 CC2243 CC2245 CC2347 CC2543 CC2544 CC2843 CC2844 CC3141 CC3142 CC3143 CC3152 CC3241 CC3243 CC3244 CC3249 CC3249 CC3247	Advanced Topics in Language Models Electrical energy technology Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 2 1 1 1 1 2 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2	0 6 6 6 6 6 6 6 6 6 6 6 6
UG ELEC UG	EC2147 EC2243 EC2245 EC2347 EC2543 EC2544 EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Electrical energy technology Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 1 1 1 2 2 2 1 2 1 2 1 1 2 1 1 2 1 2 1	6 6 6 6 6 6 6 6 6 6 6 6
UG ELEC UG	CC2243 CC2245 CC2347 CC2543 CC2544 CC2843 CC2844 CC3141 CC3142 CC3143 CC3152 CC3241 CC3243 CC3244 CC3249 CC3249 CC3255 CC3347	Introduction to electricity and magnetism Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1	6 6 6 6 6 6 6 6 6 6 6
UG ELEC	EC2245 EC2347 EC2543 EC2544 EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Control systems I Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 1 2 2 1 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1	6 6 6 6 6 6 6 6 6 6
UG ELEC	EC2347 EC2543 EC2544 EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Fundamentals of optics Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 2 2 1 1 1 2 2 1 1 1 2 2 1	6 6 6 6 6 6 6 6
UG ELEC	EC2543 EC2544 EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Object-Oriented programming and data structures Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 2 1 2 1 2 1 2 1 1 2 1 2 1 2	6 6 6 6 6 6 6 6
UG ELEC	EC2544 EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Introduction to electronic commerce and financial technology Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 1 2 1 2 1 1 1 2 1 2 1 1 2	6 6 6 6 6 6 6
UG ELEC	EC2843 EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Multivariable calculus and elementary partial differential equations Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1	6 6 6 6 6 6
UG ELEC	EC2844 EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Probabilistic systems analysis Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 1 2 1 1 2 1 2 1 2	6 6 6 6 6
UG ELEC	EC3141 EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Power transmission and distribution Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 2 1 1 2 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2	6 6 6 6
UG ELEC	EC3142 EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Electrical energy conversion Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 1 1 2 1 2	6 6 6
UG ELEC	EC3143 EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Power electronics Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 1 2 1 2	6 6 6
UG ELEC	EC3152 EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Metropolitan mass transportation Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 2 1 2	6
UG ELEC	EC3241 EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Signals and linear systems Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	2 1 2	6
UG ELEC	EC3243 EC3244 EC3249 EC3255 EC3342 EC3347	Fundamentals of next-generation communications Digital signal processing Pattern recognition and machine intelligence	1 2	
UG ELEC	EC3244 EC3249 EC3255 EC3342 EC3347	Digital signal processing Pattern recognition and machine intelligence	2	6
UG ELEC	EC3249 EC3255 EC3342 EC3347	Pattern recognition and machine intelligence		
UG ELEC	EC3255 EC3342 EC3347		1 2	6
UG ELEC	C3342 C3347	Control systems II	+	6
UG ELEC UG ELEC UG ELEC UG ELEC UG ELEC UG ELEC	EC3347		1	6
UG ELEC UG ELEC UG ELEC UG ELEC UG ELEC		Digital system design	1	6
UG ELEC UG ELEC UG ELEC UG ELEC	C3349	Electronic materials and quantum physics	1	6
UG ELECUG ELECUG ELECUG		Optical devices	1	6
UG ELEC		Electronic circuits and devices I	2	6
UG ELEC	EC3441	Computer architecture	2	6
	C3442	Embedded systems	2	6
110	EC3443	Computer networks	1 & 2	6
UG ELEC	EC3543	Advanced systems programming	1	6
UG ELEC	C3544	Introduction to data analytics	2	6
UG ELEC		Introduction to embodied artificial intelligence	2	6
		Advanced mobile apps development	1	6
		Engineering management and society	1 & 2	6
		Economics, finance and marketing for engineers	1	6
		Numerical methods and optimization	2	6
		Electric railway systems	2	6
		Power system protection and switchgear	1	6
		Electric vehicle technology	1	6
		Building services - electrical services	2	6
		Building services - electrical installations	1	6
		Power system analysis and control	2	6
		Smart grid and renewable energy systems	1	6
		Basic lighting engineering	1	6
		Hybrid electric propulsion technology	2	6
		Photonic systems technologies	+	6
		Microscopy Wireless networking in the era of machine learning	1	6
		<u> </u>	1	6
		Digital image processing	2	6
		Design of digital integrated circuits	2	6
		Introduction to deep learning and computer vision	1	6
		Artificial intelligence and deep learning	2	6
		Investment and trading for engineering students	1	6
		Emerging technology for VR/AR	1	6
		VLSI design principles	2	6
		Fundamentals of supply chain management	1	6
		Fundamentals of engineering design	1	6
		Information systems	2	6
		Operational research	1	6
		Systems modelling and simulation	2	6
	SE3109	Quality management	2	6
UG IMSE	SE3111	Intelligent optimisation	2	6
UG IMSE		Engineering economics and finance	1	6
		Engineers in society	2	6
		Human factors engineering	1	6
		Operations planning and control	1	6
		Engineering project management	1	6
		Digital enterprises and e-commerce	1	6
		Global logistics systems	1	6
		Drawing and elements of design and manufacture	<u>'</u>	

Course Level	Course Code	Course Title	Offering Semester	Credits
UG	MECH2406	Fundamentals of electrical engineering	2	6
UG	MECH2407	Multivariable calculus and partial differential equations	1 & 2	6
UG	MECH2413	Engineering mechanics	1	6
UG	MECH2414	Thermofluids	2	6
UG	MECH2419	Properties of materials	1	6
UG	MECH3402	Engineering thermodynamics	2	6
UG	MECH3407	Advanced partial differential equation and complex variables	1	6
UG	MECH3408	Mechanics of fluids	2	6
UG	MECH3409	Mechanics of solids	1	6
UG	MECH3416	Fundamentals of aeronautical engineering	1	6
UG	MECH3418	Dynamics and control	1	6
UG	MECH3420	Air pollution control	1	6
UG	MECH3427	Design and manufacture	2	6
UG	MECH3429	Air conditioning and refrigeration	1	6
UG	MECH3430	Fire protection in building	2	6
UG	MECH3431	Utility services in buildings	1	6
UG	MECH4404	Automatic control	2	6
UG	MECH4407	CAD/CAM	2	6
UG	MECH4409	Energy conversion systems	2	6
UG	MECH4410	Engineering & technology management	2	6
UG	MECH4411	Heat transfer	1	6
UG	MECH4412	Product design and development	1	6
UG	MECH4415	Applied stress and strength analysis	1	6
UG	MECH4421	Viscous flow	1	6
UG	MECH4423	Building energy management and control systems	2	6