Heriot - Watt University 2 + 2 Program Overview

Topic	Details
Program Offering	**Assumption University** Bachelor of Engineering in ❖ Electrical and Electronics Engineering ❖ Telecommunication and Electronics Engineering **Heriot-Watt University** ❖ Bachelor of Engineering in Electrical and Electronics Engineering
Location	Scotland, Edinburgh City
Tuition Fees	£19,400 Per year Tuition fee will be increased approx. GBP200 per year. https://www.hw.ac.uk/uk/study/undergraduate/electrical-and-electronic-engineering.htm * First semester tuition fees must pay in the name of Assumption University
Duration	2 year
Admission Period	February, September
Application Period	At least 4 months before the semester begins. *Deposit of 10,000 baht for the application fee (it is refundable only in the case of visa or university rejection.)
Living Cost	£865 to £1,100 / months (9 months per year)
Accommodation, Health and student supports	University Accommodation: https://www.hw.ac.uk/uk/edinburgh/accommodation/undergraduate-accommodation.htm Health, Wellbeing and student supports: https://www.hw.ac.uk/uk/students/edinburgh-campus.htm Living in the UK (Banking & Budgeting, Working in the UK): https://www.hw.ac.uk/uk/students/international/uk.htm
IELTS Score	6.0 (Academic) or above with a minimum of 5.5 in each component of writing, speaking, listening and reading.
Scholarship	10%
Accumulative GPA	3.00

Students allowed to work on or off campus - 20 hours/ week during term time and 40 hours/ week during holiday break. https://www.hw.ac.uk/uk/students/careers/uk/jobs/working-in-the-uk.htm

Internship opportunities for foreign students -https://www.hw.ac.uk/uk/students/careers/uk/jobs/internships-work-experience.htm

Job opportunities for foreign students after graduation, more info is here- https://www.hw.ac.uk/uk/students/careers/uk/jobs/graduate-jobs.htm

From June 2021, students who graduated from the UK can apply for a post-study visa for 2 years. https://www.gov.uk/government/news/uk-announces-2-year-post-study-work-visa-for-international-students

Electrical and Electronics Engineering

Assumption University

FIRST YEAR First Semester		FIRST YEAR Second Semester	
BG 0008	General Chemistry Laboratory	BG 1002	English II
BG 1001	English I	BG 1205	Calculus II
BG 1108	General Chemistry	BG 1213	Physics II
BG 1204	Calculus I	BG 1214	Physics Laboratory II
BG 1211	Physics I	BG 1221	Computer Programming
BG 1212	Physics Laboratory I	ME 1113	Engineering Drawing
IE 1110	Engineering Materials	ME 1114	Engineering Workshop
MGT 1101	Introduction to Business	GE 2202	Ethics
SECOND YEAR First Semester		**SECOND YEAR Second Semester**	
BG 2000	English III	BG 2001	English IV
BG 2207	Engineering Mathematics	ME2211	Engineering Mechanics I
BG 2208	Discrete Mathematics	CE 2704	Digital Logic Design
EE 2201	Electric Circuits	CE 2705	Digital Logic Design Laboratory
EE 2202	Electric Circuits Laboratory	TE3000	Principal of Communications
EE 2605	Engineering Electronics	EE 4705	Power Electronics
EE 2606	Engineering Electronics Laboratory	EE 4706	Power Electronics Laboratory
ME 2211	Engineering Mechanics I	GE 2101	World Civilization
EE 3705	Microprocessors and Microcontrollers	EE 3606	Electrical Instruments and Measurements
		MCE4102	Introduction to industrial Automation

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Third YEAR First Semester		Thirst YEAR Second Semester	
B39AX	Engineering mathematics and Statistics	B39MA	Electromagnetism
B39ES	Electrical Energy Systems	B39SB	Time Frequency and Signal Analysis (Free Elective)
B39SA	Signals and Systems	B39VS	System Project
B39SE	Semiconductor Electronics		
Final YEAR First Semester		**Final YEAR Second Semester**	
B30UB	4^{TH} Year Project 1	B30UC	4^{TH} Year Project 2
B30ES	Industrial Power Systems	B30EK	Sustainable Energy and Power System
B31GA	Electrical Power Systems	B30UF	4^{TH} Year Individual Project
B30EJ	Linear Control	B31SE	Image Processing (Major Elective)
B31DD	Embedded System (Major Elective)	B31XO	Scalable Inference & Deep Learning I (Major Elective)

TELECOMMUNICATION AND ELECTRONICS ENGINEERING

Assumption University

FIRST YEAR First Semester		FIRST YEAR Second Semester	
BG 0008	General Chemistry Laboratory	BG 1002	English II
BG 1001	English I	BG 1205	Calculus II
BG 1108	General Chemistry	BG 1213	Physics II
BG 1204	Calculus I	BG 1214	Physics Laboratory II
BG 1211	Physics I	BG 1221	Computer Programming
BG 1212	Physics Laboratory I	ME 1113	Engineering Drawing
IE 1110	Engineering Materials	ME 1114	Engineering Workshop
MGT1101	Introduction to Business	EE2401	Electromechanical Energy Conversion
SECOND YEAR First Semester		**SECOND YEAR** Second Semester	
BG 2000	English III	BG 2001	English IV
BG 2207	Engineering Mathematics	CE 2704	Digital Logic Design
BG 2208	Discrete Mathematics	CE 2705	Digital Logic Design Laboratory
EE 2201	Electric Circuits	GE 2101	World Civilization
EE 2202	Electric Circuits Laboratory	CE 4207	System and Network Programing
ME 2211	Engineering Mechanics I	CE 4224	Telecommunication Networks Laboratory
EE3606	Electrical Instruments and Measurements	CE4228	Data Communication and Networking
Ge2202	Ethics	TE 4111	Antenna Engineering
TE3102	Communication Networks and Transmission Lines	TE 4112	Optical Communication
TE 3301	Radio Wave Propagation	EE2401	Electromechanical Energy Conversion
		EE2401	Electromechanical Energy Conversion Laboratory

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Final YEAR First Semester		**Final YEAR** Second Semester	
B30UB	4TH Year Project 1	B30UC	4TH Year Project 2
B30ES	Industrial Power Systems	B30EK	Sustainable Energy and Power System
B30SQ	Communication Device and System	B30UF	4TH Year Individual Project
B30EJ	Linear Control	B30EI	Advanced Analogue Electronics
B31DD	Embedded System	B31SE	Image Processing
B38DF	Computer Architecture and Embedded Systems	B31XO	Scalable Inference & Deep Learning I