**FutureMade** is to look to the future, strive for better, aim for higher, make history. A future that mirrors our pioneering roots in 1821, the year we founded the world’s first Mechanics Institute. By choosing to study at Heriot-Watt today you will become part of a community working across boundaries and cultures. Collaborating with international business and industry to tackle the global challenges faced by the world we live in. Heriot-Watt undergraduates are highly employable and sought after by the best organisations worldwide.

Be [FutureMade](http://hw.ac.uk/Malaysia)
LOOK TO THE FUTURE.
STRIVE FOR BETTER.
AIM FOR HIGHER.
MAKE HISTORY.
BE AMBITIOUS.
BE BOLD.
Heriot-Watt University is aware of the challenges the youth of today face in terms of maintaining a healthy mindset, managing stress as well as developing meaningful social relationships in a landscape that has also become increasingly digitised. The university is no stranger to pioneering the global educational landscape with world-class programmes enhanced with a unique Positive Education approach.

Transforming our Youth

Realising the important role our youths play today, Heriot-Watt has developed specific programmes both in online and offline modes that are designed to support every student to realise their full potential.

Fit-For-Future

Adapting to the current environment which prohibits large gatherings, our Fit-For-Future programme applies the same techniques and content from our Youth Transformation Programme. Utilising our digital foundation platform, students are encouraged to engage in a positive transformation by focusing on developing their emotional intelligence, creativity, understanding their own personalities, their strengths and weaknesses, and developing a long-term vision and mission. This is done by setting realistic SMART goals through engaging and interesting activities. Using a proven emotional intelligence framework, and engaging activities focusing on expressing positive emotions such as empathy and gratitude, students are taught self-awareness, self-management, social awareness and relationship management.

On completion of the programme, students will develop a strong sense of self-confidence, ability to express their emotions in a positive way, and be able to relate comfortably to their peers and better manage their relationship with friends and family, providing a smooth transition and preparing them for the challenges of University studies.

The programme is open to students who have achieved a minimum of 5C’s in relevant subjects in SPM, IGCSE or equivalent. The programme objectives are:

- Apply the techniques for a successful mindset
- Identify your strengths, passion and potential
- Describe the four domains of emotional intelligence
- Develop and set realistic SMART Goals
- Understand team dynamics and what makes a successful team

The following are some of the sessions under the programme:

- The Successful Mindset
- Rewiring Your Brain
- Emotional Intelligence
- Knowing Yourself
- Setting SMART Goals
- Building Social Capital
- Team Dynamics
- Career Planning
- Project Showcase

Note: Our Youth Transformation Programme (YTP) will be suspended for the time being.
The Maths Gym is a cross-campus initiative which aims to support all Heriot-Watt students, across all our campuses, to strengthen their mathematical and statistical skills and to boost their mathematical confidence.

We provide support to students from all degree courses that have maths or statistics related questions. Whether you need to brush up on basic skills, get to grips with a new topic or you just want to talk maths then we can help you achieve your goals! We provide support through drop-in sessions, small group appointments and online resources. Please look through our website https://mathsgym.hw.ac.uk to find out more about the support offered across the globe!
EmPOWER Programme

4-level Structured Programme Anchored by 6 Developmental Domains

FEATURES

LEVELS

**Watt** (Knowing and Leading Self)
- Compulsory for Year 1 students
- Focus on developing self-awareness, mental resilience, positive mindset and communication skills
- Discover purpose through Impact Statement

**Kilowatt** (Leading Teams)
- Develop leadership and people skills
- Lead projects, events and extra-curricular activities on campus

**Megawatt** (Leading Communities)
- Aim to make a positive impact on communities
- Create awareness towards global challenges and volunteer for a cause
- Enhance social and economic capital

**Gigawatt** (Leading Enterprise)
- Aim to create jobs and raise funds through social entrepreneurial ventures
- Create global impact
<table>
<thead>
<tr>
<th>Watt</th>
<th>Leading &amp; Resilience</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Defining impact (impact statement)</td>
<td></td>
</tr>
<tr>
<td>• Leadership style awareness</td>
<td></td>
</tr>
<tr>
<td>• Self-awareness management</td>
<td></td>
</tr>
<tr>
<td>• Active &amp; healthy lifestyle</td>
<td></td>
</tr>
<tr>
<td>• Effective communication time management</td>
<td></td>
</tr>
<tr>
<td>• Gratitude</td>
<td></td>
</tr>
<tr>
<td>• Divergent thinking</td>
<td></td>
</tr>
<tr>
<td>• Facilitating discovery opportunity finding</td>
<td></td>
</tr>
<tr>
<td>• Brainology</td>
<td></td>
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<tr>
<td>• Thinking biases</td>
<td></td>
</tr>
<tr>
<td>• Brain neurology</td>
<td></td>
</tr>
<tr>
<td>• Reframing &amp; positive framing</td>
<td></td>
</tr>
<tr>
<td>• Preparing CV</td>
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<tr>
<td>• LinkedIn profile</td>
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<tr>
<td>• Career planning</td>
<td></td>
</tr>
<tr>
<td>• Career fair</td>
<td></td>
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<tr>
<td>• Prof. dev. plan</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Kilowatt</th>
<th>Leading Teams</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Influencing through impact awareness of the global challenges</td>
<td></td>
</tr>
<tr>
<td>• Social awareness relationship management return on failure</td>
<td></td>
</tr>
<tr>
<td>• Effective collaboration</td>
<td></td>
</tr>
<tr>
<td>• Lean startup</td>
<td></td>
</tr>
<tr>
<td>• Creating products services</td>
<td></td>
</tr>
<tr>
<td>• Evaluating claims analyzing inferences</td>
<td></td>
</tr>
<tr>
<td>• Business etiquette</td>
<td></td>
</tr>
<tr>
<td>• Applying knowledge in industrial contexts</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Megawatt</th>
<th>Leading Communities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Widening impact resolving ethical challenges</td>
<td></td>
</tr>
<tr>
<td>• Negotiation mediation persuasion</td>
<td></td>
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<tr>
<td>• Financial literacy</td>
<td></td>
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<tr>
<td>• Appreciating market customers</td>
<td></td>
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<tr>
<td>• Weighing decisions analyzing challenges</td>
<td></td>
</tr>
<tr>
<td>• Global industrial placement (work global)</td>
<td></td>
</tr>
<tr>
<td>• Integrating commercial and industrial context to address community needs</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Gigawatt</th>
<th>Leading Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Global impact system thinking</td>
<td></td>
</tr>
<tr>
<td>• Supporting those under their care emotionally</td>
<td></td>
</tr>
<tr>
<td>• Lifelong learning</td>
<td></td>
</tr>
<tr>
<td>• Running an enterprise blue ocean strategy</td>
<td></td>
</tr>
<tr>
<td>• Assessing risk</td>
<td></td>
</tr>
<tr>
<td>• Impacting industrial practice</td>
<td></td>
</tr>
<tr>
<td>• Creating jobs</td>
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</tbody>
</table>
The EmPOWER Programme enables students to be in charge of charting their developmental needs and becoming intentional lifelong learners and will definitely make Heriot-Watt University graduates both highly employable and future-ready.

AINOL YAACOB
HEAD OF COUNTRY, BP MALAYSIA

I am delighted to see the EmPOWER Programme promoting global citizenship and a comprehensive set of 21st Century skills amongst the students of Heriot-Watt University Malaysia. The Programme will go a long way towards making them not only highly employable but also highly impactful citizens of the world.

SARAH DEVERALL
DIRECTOR MALAYSIA, BRITISH COUNCIL

The EmPOWER Programme is certainly a great initiative by Heriot-Watt University Malaysia to prepare graduates to be industry-ready. Students will be shaped to think about the greater purpose with focus on soft skills that are fundamental when joining the workforce. Employers are looking for that differentiating factor in today’s disruptive business environment. A structured programme such as this will be beneficial to increase students’ employability.

MUHAMMAD AZMI BIN ZULKIFLI
CEO, INVEST KL

Guided to find life purpose and craft an Impact Statement

The community service component of this course helped bring our Impact Statement to life. It helped to boost life skills such as leadership, teamwork and communication through how we form our group, propose an event and negotiate and manage conflict among the group members. I personally vouch for the EmPOWER Programme and would highly recommend this course to continuously EmPOWER our Heriot-Watt community.

M. SYAFIQ BIN SALLEH
MECHANICAL ENGINEERING

VALENTINA NICSON
CIVIL ENGINEERING

The EmPOWER Programme made me realise that NO GOAL is worth missing out on! The programme has encouraged me to look inward, understand myself and analyse what is important to me. It has enabled me to understand new perspectives of my surroundings and the world.

MOHAMMAD SYAFIQ BIN SALLEH
MECHANICAL ENGINEERING

VALENTINA NICSON
CIVIL ENGINEERING

The EmPOWER Programme, specifically the module on Impact Statement, had the students reflect on the past, the present and the future. In the present module, students had to come up with our ikigai, a Japanese concept for our reason for being. Ikigai is the intersection between what you love, what you are good at, what you get paid for and what the world needs. Leave one out and life becomes unfulfilled.

ARISSA NOORDINA BAHARI
CIVIL ENGINEERING

BT MOHD AMIR SHAHRIL BAHARI
ACTUARIAL SCIENCE

Student Testimonials
At Heriot-Watt, you have the opportunity to enjoy a truly international experience. We are one of the world’s top universities for international student mix and you have the chance to become a global student by taking part in an Inter-Campus Transfer to our Scottish or Dubai campuses.

Campus transfers are guaranteed as long as your programme is available at the campus you are transferring to and you meet progression requirements.

Tuition fee waiver off Dubai or UK tuition fees when you transfer.

Study for as little as one semester at one of our global campuses.

Study at our global campuses until completion.

Edinburgh, Orkney & the Scottish Borders, Scotland, UK

Dubai, UAE

Putrajaya, MALAYSIA

Heriot-Watt reserves the right to withdraw opportunities to participate in the Go Global programme, including Inter-Campus Transfers, at any time.
Actuaries manage risk and uncertainty and evaluate the likely impact of future events. Heriot-Watt’s Actuarial Science programme is world-famous for its excellence. It contains all the courses that are essential for ensuring a flying start to a career as an actuary whilst at the same time fostering highly transferable mathematical skills.

If you excel at mathematics, enjoy problem solving and are looking for a degree that will prepare you for a rewarding career – both intellectually and financially – Actuarial Science could be the programme for you.

This programme is one of the few in Malaysia which are fully accredited by the UK Institute and Faculty of Actuaries (IFoA). Good performance means exemptions from the Core Principles subjects (CS1, CS2, CM1, CM2, CB1, CB2), giving prospective actuaries an advantage over those in other mathematics-based programmes. The degree is also accredited by the Royal Statistical Society and by the Malaysian Qualifications Agency (MQA).

Additionally, we are also recognised by the Society of Actuaries (SOA) under Universities & Colleges with Actuarial Programs - Advanced Curriculum (UCAP-AC) which is the highest level of recognition in Malaysia.

### Year 1:
- Probability and Statistics A & B
- Linear Algebra
- Actuarial and Financial Mathematics A & B
- Multivariable Calculus and Real Analysis A & B
- Algorithmic and Scientific Programming

Optional and elective courses available for Year 1 include:
- Finance and Financial Reporting
- Operations Management

### Year 2:
- Life Insurance Mathematics A & B
- Stochastic Processes
- Survival Models
- Derivative Markets and Discrete-time Finance
- Statistical Models A & B
- Portfolio Theory & Asset Models

### Year 3:
Students typically take Introductory Economics, Continuous-time Finance, Risk Theory and Time Series Analysis, and can choose from a range of options such as Statistics for Social Science, Bayesian Inference and Computational Methods, Statistical Machine Learning and Optimisation.

Students take a total of 8 or 9 courses per year including core, optional and elective courses/projects. For full details of the optional and elective courses please refer to our website.
The applications of statistical data science range from economics and medicine to social and environmental sciences. Our BSc in Statistical Data Science provides a blend of both theoretical and applied elements of modern statistics, and aims to give students the training in modelling, analysing and interpreting real data that is required in the economy, industry and research. The first year of the programme covers basic mathematics, probability and statistics. The final two years focus on specialist topics of statistical modelling and advanced courses in mathematics and data science. A variety of statistical computer packages are used.

Our programme is accredited by the Royal Statistical Society. It is possible for students who have completed the programme to apply for some exemptions from the Institute and Faculty of Actuaries (IFoA) professional examinations.

Year 1:
- Probability and Statistics A & B
- Linear Algebra
- Actuarial and Financial Mathematics A & B
- Multivariable Calculus and Real Analysis A & B
- Algorithmic and Scientific Programming

Optional and elective courses available for Year 1 include:
- Finance and Financial Reporting
- Operations Management

Year 2:
- Stochastic Processes
- Statistical Models A & B
- Statistics for Social Science
- Portfolio Theory and Asset Models (Optional)
- Human Resource Management (Elective)
- Survival Models
- Bayesian Inference & Computational Methods
- Derivative Markets and Discrete-time Finance (Optional)
- Ordinary Differential Equations (Optional)

Year 3:
- Optimisation
- Statistical Dissertation A & B
- Statistical Machine Learning
- Continuous-Time Finance (Optional)
- Data Assimilation (Optional)
- Project Management (Elective)
- Time Series Analysis
- Risk Theory (Optional)
- Statistics Special Topic (Optional)
- Risk Management: Techniques and Tools (Optional)
Oscar Tan Kah Jie’s Story

“Heriot-Watt’s Actuarial Science programme appealed to me as it is among the top-ranked in the field. The course is designed so that the skills learned are directly transferrable to the workplace. The courses not only strengthen our theoretical knowledge, but also ensure that we are industry-ready.”

Oscar Tan Kah Jie
BSc (Hons) Actuarial Science student and former Foundation in Business student
Former School: SMJK Heng Ee
Your Study Pathway

Choose the Go Global Route

Go Global Route

Complete Year 1 in Malaysia

Transfer to the UK Campus for Year 2

Complete Year 3 and Graduate in Malaysia

Complete Year 1 in Malaysia

Complete Year 2 in Malaysia

Complete Year 3 and Graduate in the UK

* Only possible for programmes available in both Malaysia and UK campuses

Or Choose to Study in Malaysia or Transfer Directly to the UK

Study in Malaysia

Study in the UK

Foundation in Business with Actuarial Science at Heriot-Watt University Malaysia

3 + 0 Actuarial Science

3 + 0 Statistical Data Science

0 + 3 / 0 + 4*

Direct Entry to Year 2, UK

1 + 2 / 1 + 3*

Complete Year 1 in Malaysia, and Entry into Year 3, UK

- Actuarial Science
- Actuarial Science and Diploma in Industrial Training*
- Financial Mathematics
- Mathematics
- Mathematics with Finance
- Mathematics with Finance and Diploma in Industrial Training*
- Mathematics with Statistics
- Statistical Data Science
- Mathematical, Statistical and Actuarial Science and Diploma in Industrial Training*
- MMath Mathematics*
- Mathematics with Physics**
- Mathematical, Statistical and Actuarial Science

** Only for students who had taken Foundation in Science and have attained a specific grade in Physics.

Malaysia and UK Equivalency

<table>
<thead>
<tr>
<th>Malaysia Program</th>
<th>Year in UK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaysia Foundation Programme</td>
<td>Year 1, UK</td>
</tr>
<tr>
<td>Year 1, Malaysia Campus</td>
<td>Year 2, UK</td>
</tr>
<tr>
<td>Year 2, Malaysia Campus</td>
<td>Year 3, UK</td>
</tr>
<tr>
<td>Year 3, Malaysia Campus</td>
<td>Year 4, UK</td>
</tr>
</tbody>
</table>

Entry to the UK campus is contingent upon agreed progression rules and entry requirements that are set by the UK campus. Please check with the Registry when you are making plans to do your transfer.


## Foundation Intakes: April, July and September

### FOUNDATION PROGRAMME

<table>
<thead>
<tr>
<th>Programme Name</th>
<th>Qualification</th>
<th>Subject Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation in Science</td>
<td>SPM/IGCSE: 5Cs</td>
<td>English, Mathematics, Additional Mathematics, Physics and Chemistry</td>
</tr>
<tr>
<td>Foundation in Business</td>
<td>SPM/IGCSE: 5Cs</td>
<td>English and Mathematics and other relevant subjects</td>
</tr>
<tr>
<td>Foundation in Business Actuarial Science and Statistical Data Science route (select from Accounting or Computing options)</td>
<td>SPM/IGCSE: 5Cs</td>
<td>English, Mathematics, Additional Mathematics and other relevant subjects</td>
</tr>
<tr>
<td>Foundation in Business (Psychology Route)</td>
<td>SPM/IGCSE: 5Cs</td>
<td>English, Science, Mathematics and other relevant subjects</td>
</tr>
</tbody>
</table>

Progression to your chosen undergraduate programme may require pre-requisite subjects with specific grades at the SPM/IGCSE/Equivalent levels in addition to your Foundation results.

### UNDERGRADUATE PROGRAMMES

<table>
<thead>
<tr>
<th>Programme Name</th>
<th>Qualification</th>
<th>Pre-requisite Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (Hons) Actuarial Science</td>
<td>STPM/A-Level: ABB</td>
<td>FIB or FiB: A in Mathematics, C in Academic Skills and Foundation English, and B’s in the other two subjects.</td>
</tr>
<tr>
<td>BSc (Hons) Statistical Data Science</td>
<td>IB Diploma: 28 points</td>
<td>STPM/A-Level/equivalent: A in Mathematics.</td>
</tr>
<tr>
<td></td>
<td>SMA 3: 8 points or less</td>
<td>IB Diploma: Minimum 6 in HL Analysis and Approaches Mathematics.</td>
</tr>
<tr>
<td></td>
<td>UEC: 80%</td>
<td>UEC: A1 in Mathematics and Advanced Mathematics and 5 subjects not less than B grade</td>
</tr>
<tr>
<td></td>
<td>WACE: Minimum 80%</td>
<td>WACE: Minimum: 80% in Mathematics.</td>
</tr>
<tr>
<td></td>
<td>SACE: Minimum 17.0</td>
<td>SACE: Minimum 17.0 in Mathematics.</td>
</tr>
<tr>
<td></td>
<td>ATAR: 90**</td>
<td>** May be subject to school assessment</td>
</tr>
<tr>
<td></td>
<td>ABBC</td>
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</tr>
</tbody>
</table>

** May be subject to school assessment

### ENGLISH LANGUAGE REQUIREMENTS

The following are the English language requirements for entry into our programmes.

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Foundation</th>
<th>UG</th>
<th>UG - Actuarial</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS</td>
<td>5.5</td>
<td>6</td>
<td>65</td>
</tr>
<tr>
<td>Cambridge</td>
<td>FCE Grade C</td>
<td>FCE Grade B</td>
<td>FCE Grade A</td>
</tr>
<tr>
<td>Pearson PTE Academic</td>
<td>51</td>
<td>57</td>
<td>60</td>
</tr>
<tr>
<td>MUET</td>
<td>–</td>
<td>Band 4</td>
<td>Band 5</td>
</tr>
<tr>
<td>SPM</td>
<td>C</td>
<td>B+</td>
<td>A</td>
</tr>
<tr>
<td>1119 GCE-O</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>GCSE/IGCSE</td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>UEC</td>
<td>B4</td>
<td>B3</td>
<td>A2</td>
</tr>
<tr>
<td>TOEFL IBT</td>
<td>70</td>
<td>80</td>
<td>90</td>
</tr>
</tbody>
</table>

In order to study effectively at Heriot-Watt, you need excellent English language skills. For those who need assistance and do not meet the English entry requirements above, Heriot-Watt University Malaysia provides a Pre-Sessional English Programme (PSEP). Find out more about our PSEP on our website: hw.edu.my/english

If your country’s qualification is not listed, or you have any questions, contact our Recruitment and Administrations Office: MYadmissions@hw.ac.uk
Heriot-Watt University Malaysia accepts applications all year round.

**APPLY ONLINE**

You can apply online for our programmes at bit.ly/HWUMApply. You must create an account to use the online application form. You don’t have to complete the application in one session; you can save the information you have already entered and return to complete it at a later date. There is a help facility on each page of the online form.

**SUPPORTING DOCUMENTS**

Please remember to upload supporting documents so that we can make a decision on your application. This includes proof of English language proficiency and original or certified copies of academic transcripts.

Please refer to the supplemental item checklist on the Online Application form: http://bit.ly/hwumaccount

See website for details of fees: www.hw.edu.my/fees

**DISCLAIMER OF LIABILITY**

Heriot-Watt University will make all reasonable efforts to deliver the programmes described in this brochure.

Prospective students should be aware that it is occasionally necessary to modify, discontinue or combine programmes and/or make changes to entry requirements. This may be necessary for a number of reasons such as low enrolments, illness or departure of staff, industrial action or reduction of funding. Changes will only be made if the University reasonably considers it to be necessary.

If a programme is discontinued, the University will use reasonable endeavours to provide a suitable alternative and will take all reasonable steps to minimise disruption, or allow a student to withdraw without penalty if a programme is cancelled or significantly varied, with an appropriate refund of tuition fees and deposits.

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As of Dec 2020