University of Strathclyde
Bahrain

Be Inspired,
Encouraged,
Supported
and Stimulated
To Learn

University of Strathclyde, Bahrain

The Place of Useful Learning

WELCOME TO THE
UNIVERSITY OF STRATHCLYDE, BAHRAIN

Welcome to the University of Strathclyde, Bahrain – where two locations become one journey.

We're growing our academic community by offering eight undergraduate programmes in Bahrain. Based in Harbour Heights, the University of Strathclyde, Bahrain will bring the distinctive approach to academic excellence and world-class research that Strathclyde is known for.

Explore our programmes and discover why University of Strathclyde, Bahrain should be your next step.

OUR FACILITIES

Based in a bespoke campus in Harbour Heights, the University of Strathclyde, Bahrain provides students with a unique learning environment looking out on to the incredible Bahrain Bay.

Our campus houses modern classrooms and learning spaces to allow our students to engage in their learning in a variety of ways.

OUR PROGRAMMES

Be part of a community that celebrates more than 200 years of delivering academic excellence, world-class research, and making impact through innovation.

From September 2024, the University of Strathclyde, Bahrain will offer eight undergraduate programmes across Engineering, Business, and Computer Science. These programmes are:

- **Bachelor of Engineering (with Honours) Mechanical Engineering**
- **Bachelor of Engineering (with Honours) Electronic & Electrical Engineering**
- **Bachelor of Engineering (with Honours) Civil Engineering**
- **Bachelor of Engineering (with Honours) Chemical Engineering**
- **Bachelor of Science (with Honours) Computer Science**
- **Bachelor of Science (with Honours) Software Engineering**
- **Bachelor of Business Administration (with Honours)**
- **Bachelor of Business Administration (with Honours) in Marketing**

BSC (HONS) SOFTWARE ENGINEERING

Why this course?

Software engineers design and develop large, complex systems. These include the systems used in vehicles, phones, large-scale financial systems and secure web and medical applications.

As a software engineer, you'll need a good understanding of software, hardware, communication technologies and strong design and team skills. You'll also need to understand the impact of the development strategies of different systems.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
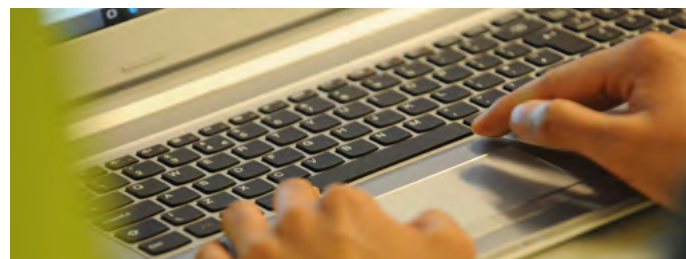- Arabic Language

First Year

All students shall undertake modules as follows:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Computing 1
- Computing 2
- Discrete Maths and Graph Theory
- Chemistry 1 or Physics 1

Second Year

All students shall undertake modules amounting to 120 credits as follows:

- Advanced Programming
- Logic and Algorithms
- User and Data Modelling
- Computer Systems and Architecture
- Professional Issues in Computing
- Quantitative Methods for Computer Science
- Functional Thinking
- Technology in Business

Third Year

All students shall undertake modules amounting to 120 credits as follows:

- Building Software Systems
- Computer Systems and Concurrency
- Foundations of Artificial Intelligence
- Web Applications Development
- Functional Programming
- Mobile App Development

Industrial Placement

Between the third and the fourth years of their study each student shall spend a period of approximately one year on work approved by the Programme Director; this shall constitute the module CS472 Industrial Placement. The major part of this period will normally be spent in industry and a report on the work performed must be submitted to the Programme Director by the end of the first week of the first semester of the final year. This report shall count for 20 credits at Level 4.

Fourth Year

All students shall undertake modules amounting to 120 credits as follows:

- Software Architecture and Design
- Individual Project
- Computer Security

Students must take 40 credits of Optional Modules from the list below.

- Advanced Functional Programming
- Theory of Computation
- Information Access and Mining
- Human Centred Security

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

LEARNING & TEACHING

Knowledge and understanding are gained through lectures and supported in tutorials or laboratories, and individual and group project work. You'll be encouraged to read and research independently to help broaden your understanding of the subject.

Learning and teaching methods aim to help you gain knowledge and understanding as well as the development of intellectual skills (problem-solving and critical evaluation skills), practical skills (designing and implementing a software system, team-working skills) and transferable skills (investigative skills, presentation skills, report-writing skills, time management skills, independent learning skills).

BSC (HONS) COMPUTER SCIENCE

Why this course?

Computer science demands and develops a challenging mix of skills and abilities. These include a deep understanding of the technology, creativity and imagination, logic and attention to detail, strong analytic and design skills combined with excellent communication skills and the ability to work as part of a team.

Our graduates not only understand new technologies but are able to influence their development.

All our computer science degrees have strong practical and theoretical foundations.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

All students shall undertake modules as follows:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Computing 1
- Computing 2
- Discrete Maths and Graph Theory
- Chemistry 1 or Physics 1

Second Year

All students shall undertake modules amounting to 120 credits as follows:

- Advanced Programming
- Logic and Algorithms
- User and Data Modelling
- Computer Systems and Architecture
- Professional Issues in Computing
- Quantitative Methods for Computer Science
- Functional Thinking
- Technology in Business

Third Year

All students shall undertake modules amounting to 120 credits as follows:

- Building Software Systems
- Computer Systems and Concurrency
- Foundations of Artificial Intelligence
- Web Applications Development
- Functional Programming
- Mobile App Development

Fourth Year

All students shall undertake modules amounting to 120 credits as follows:

- Computer Security
- Individual Project

Students must take 60 credits of optional Modules from the list below.

- Software Architecture and Design
- Advanced Functional Programming
- Theory of Computation
- Information Access and Mining
- Human Centred Security

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

LEARNING & TEACHING

Knowledge and understanding are gained through lectures and supported in tutorials or laboratories, and individual and group project work. You'll be encouraged to read and research independently to help broaden your understanding of the subject.

Learning and teaching methods aim to help you gain knowledge and understanding as well as the development of intellectual skills (problem-solving and critical evaluation skills), practical skills (designing and implementing a software system, team-working skills) and transferable skills (investigative skills, presentation skills, report-writing skills, time management skills, independent learning skills).

BEng (HONS) MECHANICAL ENGINEERING

Why this course?

Mechanical engineers conceive, design and put into operation devices, machines, engines and energy systems to solve a wide variety of society's technological challenges. Our courses ensure students gain both a theoretical and practical understanding of the fundamental engineering sciences, mathematics and engineering analysis, design, electrical engineering, materials engineering and professional studies.

We design our courses to help you to understand how the topics apply to real-world problems. We'll prepare you to work in a technical world where knowledge is growing rapidly.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

All students shall undertake modules as follows:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Applied Mathematics 1
- Applied Mathematics 2
- Physics 1
- Physics 2

Second Year

COMPULSORY CLASSES

- Engineering Mechanics 2
- Electrical Machines & Control
- Heat & Flow 2
- Mathematical Modelling & Analysis
- Materials Engineering & Design
- Mechanical Engineering Design 2
- Mathematics 2M
- Energy Systems 1
- Elective module

Third Year

COMPULSORY CLASSES

- Structural Mechanics
- Dynamics & Control
- Engineering Analysis III
- Heat & Flow 3
- Business Analysis in Engineering
- Professional Responsibilities
- Mechanical Engineering Design 3A
- Mechanical Design 3B

Fourth Year

COMPULSORY CLASSES

- Case Studies in Engineering
- Computer Aided Engineering Design
- Engineering Materials Selection
- Individual Project - Mechanical
- Advanced Mechanics & Dynamics
- Heat & Flow 4
- Energy Systems and Modelling

LEARNING & TEACHING

In the early stages, learning skills are developed through interactive teaching, problem-solving and problem-based learning. In later years, students will take part in lectures, tutorials, web-based interactive learning, practical work and computer-based learning. The emphasis on individual and group projects increases as our students' skills develop.

BEng (HONS) ELECTRICAL & ELECTRONIC ENGINEERING

Why this course?

Electronic & electrical engineering is at the heart of everything we do – from renewable energy and smart grids to high-speed fibre-optic broadband, digital sound and vision, and internet security.

Electronic & electrical engineers are the people who:

- design, build, operate and maintain our global power systems, our telecommunications networks and computing infrastructure
- develop electronic systems essential to industry, health and entertainment

They aim to find innovative and progressive solutions to today's global challenges, whether that's technologies to deliver clean energy, systems to improve audio and image quality on your phone, tablet and laptop, or techniques to improve digital imagery in medical devices to aid diagnosis.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
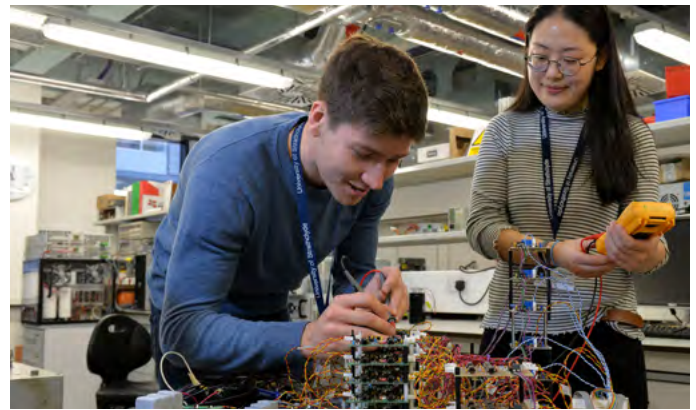- Human Rights
- Arabic Language

First Year

All students shall undertake modules as follows:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Computing 1
- Electronics
- Physics 1
- Physics 2

Second Year

COMPULSORY CLASSES

- Engineering Design and Manufacture
- Physical Electronics
- Electromagnetism
- Electronic and Electrical Principles 2
- Digital Electronic Systems
- Electronic and Electrical Techniques and Design 2
- Engineering Design for Software Development 2
- Engineering Mathematics 3E

Third Year

COMPULSORY CLASSES

- Signals & Communications Systems
- Electronic & Electrical Principles 3
- Instrumentation & Microcontrollers
- Engineering Analysis
- Engineering Innovation & Management
- Engineering Project
- Elective module

Fourth Year

- Individual Project

Elective classes
Choose four from:

- Analogue and Digital System Design
- Renewable Energy Technologies
- Communications Networks
- Control Principles
- Photonic Systems
- Power Electronics, Machines & Applications
- Power System Design, Operation & Protection
- Analogue Systems
- Digital Signal Processing Principles
- Information Transmission & Security
- Robotic Systems

LEARNING & TEACHING

To engage and challenge you, we use a blend of teaching methods. These include lectures, small group problem-solving tutorials and practical sessions.

You'll not only develop technical engineering expertise but also communication, project management, leadership and entrepreneurial skills.

BEng (HONS) CIVIL ENGINEERING

Why this course?

Civil engineering develops and improves facilities and services that society needs – from the supply of clean water and energy to the design and construction of roads, railways and stations. Graduates of our civil engineering degrees develop and renew towns and cities, and improve links with more remote communities.

Solving problems of air, land and water pollution and protecting society against natural disasters are also important aspects of civil engineering.

Five core threads of civil engineering run through our curriculum:

- structural engineering
- geotechnical engineering
- water engineering
- environmental engineering
- transport & construction

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

All students shall undertake modules as follows:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Applied Mathematics 1
- Applied Mathematics 2
- Physics 1
- Physics 2

Second Year

COMPULSORY CLASSES

- Structural Mechanics & Materials 2
- Land Surveying & Mapping
- Hydraulics & Hydrology
- Soil Mechanics
- Chemistry & Materials Science
- Mathematics 2D

Third Year

COMPULSORY CLASSES

- Structural Engineering 1
- Geotechnical Engineering 1
- Water Engineering 1
- Construction Project Management
- Environmental Engineering
- Engineering Mathematics
- Transport Engineering
- Engineering for Global Development

Fourth Year

COMPULSORY CLASSES

- Structural Engineering 2
- Geotechnical Engineering 2
- Water Engineering 2
- Prestressed Concrete, Stability & Steel Design
- Project Planning
- Individual Project

Select 20 credits from the following modules:

- Transport Planning
- Contaminated Land
- Water and Environmental Management

LEARNING & TEACHING

Our learning and teaching aims to equip students with the knowledge and skills required to build a successful career as an engineer.

Our teaching methods include:

- Lectures
- Tutorials
- Student-led seminars
- Group projects
- Practical work
- Fieldwork

BEng (HONS) CHEMICAL ENGINEERING

Why this course?

Chemical engineers play a vital role in finding solutions to 21st century challenges, such as providing people with clean water, medicines, food and fuel. Our graduates design and operate industrial processes that turn raw materials into valuable products, minimising their environmental impact.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

The first year of teaching aims to develop knowledge and skills by undertaking the following modules:

- Maths for Science and Engineering 1
- Maths for Science and Engineering 2
- Lab Skills and Scientific Communication
- Academic English Skills
- Chemistry 1
- Chemistry 2
- Applied Mathematics 1
- Physics 1

Second Year

In the second year, you'll study core chemical engineering areas such as process analysis and statistics, fluid flow and heat transfer and safety:

- Thermodynamic and Chemical Principles
- Fluid Flow and Heat Transfer
- Process Analysis and Statistics
- Process Safety Fundamentals
- Applied Mathematics and Problem Solving
- Chemical Engineering Practice 1
- Applied Mechanics

Third Year

The third year of study include areas such as reactors, biochemical engineering and materials and processes:

- Mass Transfer and Separation Processes
- Materials Processing and Applications
- Ethics, Sustainability and Economics
- Chemical Engineering Practice 2
- Biochemical Engineering
- Reactors
- Chemical Process Design and Simulation

Fourth Year

The final year of study includes particle technology, multiphase systems and process control:

- Process Control and Environmental Technology
- Chemical Engineering Design
- Advanced Separations and Problem Solving
- Particle Technology and Advanced Reactors

LEARNING & TEACHING

The emphasis throughout the course is to help students develop their confidence and ability to take responsibility for their own work and learning.

The transition from being taught to working and learning is an important feature of the degree programme. Our teaching methods include lectures, tutorials, workshops, and practical work.

BBA (HONS) – BACHELOR OF BUSINESS ADMINISTRATION

Why this course?

When you choose to study with us, you'll join an internationally rated school with an excellent reputation around the world for teaching and research. The programme builds your confidence and entrepreneurial capabilities and promotes awareness of globalisation and ethical issues in personal and business decision-making. A particular feature of the BBA is the compulsory Leadership Development Programme (LDP) which will cover areas such as leadership, negotiation, entrepreneurship, ethics and strategic management, as well as honing your practical skills in areas of IT, numeracy and research methodology.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

All students shall undertake modules amounting to 120 credits as follows:

- Quantitative Methods
- Academic English Skills
- Strategy and the Business Environment
- Accounting and Finance
- Economics
- HR and Organisational Behaviour
- Marketing and Operations

Second Year

COMPULSORY CLASSES

- Introduction to Finance
- Academic Skills
- Leadership Development Programme 1
- Analysing and Improving Operations
- New Venture Planning
- Intermediate Macroeconomics and Data Analysis
- Understanding Consumers and Markets

Third Year

COMPULSORY CLASSES

- Leadership Development Programme 2
- Organising and Managing Across Cultures
- Venture Management Strategy & Growth
- Understanding and Optimising Business Systems
- Intermediate Microeconomics

Students can choose one of the following:

- Strategic Marketing in an International Context
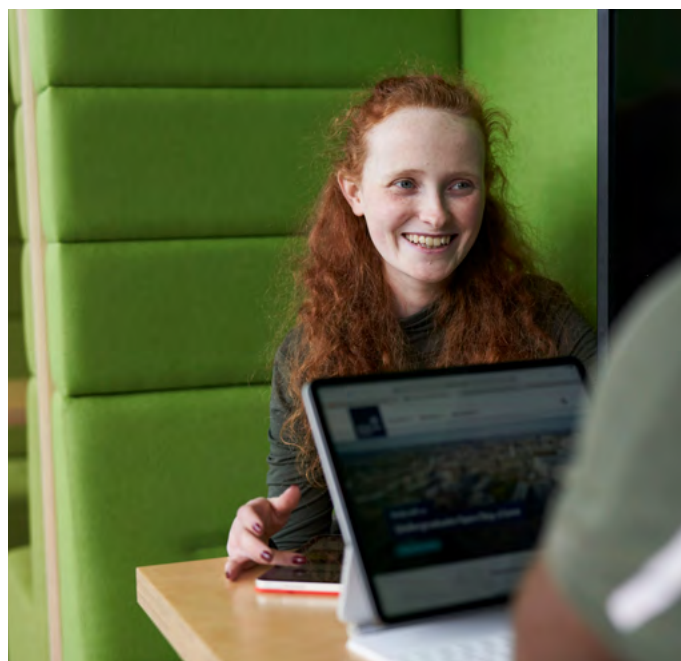- Marketing Communication in the Digital Age

Fourth Year

- Dissertation
- Strategy Making for Social Impact
- Natural Resource, Environmental and Energy Economics
- Project Management
- International Business Management

LEARNING & TEACHING

Classes are taught through lectures, tutorials, and seminars alongside team-based projects, online materials, and interactive sessions using personal response systems.

The innovative and highly acclaimed Leadership Development Programme (LDP) is at the core of our undergraduate degrees in the Business School and comprises a series of classes which you take throughout Years 2 and 3. You develop knowledge and skills in key areas of management, and team-working, communication and decision-making skills, all of which are highly sought-after by employers.

BBA (HONS) – BACHELOR OF BUSINESS ADMINISTRATION WITH MARKETING

Why this course?

When you choose to study with us, you'll join an internationally rated school with an excellent reputation around the world for teaching and research. The programme builds your confidence and entrepreneurial capabilities and promotes awareness of globalisation and ethical issues in personal and business decision-making. A particular feature of the BBA (Hons) with Marketing is the compulsory Leadership Development Programme (LDP) which will cover areas such as leadership, negotiation, entrepreneurship, ethics and strategic management, as well as honing your practical skills in areas of IT, numeracy and research methodology.

COURSE CONTENT

All students shall complete the following compulsory modules during their programme:

- History of Bahrain
- Human Rights
- Arabic Language

First Year

All students shall undertake modules amounting to 120 credits as follows:

- Quantitative Methods
- Academic English Skills
- Strategy and the Business Environment
- Accounting and Finance
- Economics
- HR and Organisational Behaviour
- Marketing and Operations

Second Year

COMPULSORY CLASSES

- Introduction to Finance
- Academic Skills
- Leadership Development Programme 1
- Understanding Consumers and Markets
- Services and Retail Marketing

And two from the following options:

- Analysing and Improving Operations
- Intermediate Macroeconomics and Data Analysis
- New Venture Planning

Third Year

COMPULSORY CLASSES

- Leadership Development Programme 2
- Organising and Managing Across Cultures
- Marketing Communication in the Digital Age
- Strategic Marketing in an International Context

and two from the following options:

- Venture Management Strategy & Growth
- Understanding and Optimising Business Systems
- Intermediate Microeconomics

Fourth Year

- Advances in Consumer Behaviour
- Brand Management
- International Business Management
- Sustainability, Marketing and Society
- Dissertation (Marketing)

LEARNING & TEACHING

Classes are taught through lectures, tutorials, and seminars alongside team-based projects, online materials, and interactive sessions using personal response systems.

The innovative and highly acclaimed Leadership Development Programme (LDP) is at the core of our undergraduate degrees in the Business School and comprises a series of classes which you take throughout Years 2 and 3. You develop knowledge and skills in key areas of management, and team-working, communication and decision-making skills, all of which are highly sought-after by employers.

FEES AND FUNDING

Programme fees for the 2024/25 academic year are:

Programme	Fee
Bachelor of Engineering (with Honours) Mechanical Engineering	8,500 BHD
Bachelor of Engineering (with Honours) Electronic & Electrical Engineering	8,500 BHD
Bachelor of Engineering (with Honours) Civil Engineering	8,500 BHD
Bachelor of Engineering (with Honours) Chemical Engineering	8,500 BHD
Bachelor of Science (with Honours) Computer Science	7,500 BHD
Bachelor of Science (with Honours) Software Engineering	7,500 BHD
Bachelor of Business Administration (with Honours)	7,500 BHD
Bachelor of Business Administration (with Honours) in Marketing	7,500 BHD

Fees cited are for all students applying to study at the University of Strathclyde, Bahrain, regardless of their domicile.

ENTRY REQUIREMENTS

The University of Strathclyde, Bahrain accepts a range of academic qualifications for entry to its programmes.

Thanawiya/High School Diploma: students should have successfully completed their high school diploma and have achieved an overall score of 80%, with 80% in relevant subjects for their chosen degree programmes.

International Qualifications (e.g. A-Levels, IB Diploma, US High School): we accept a wide variety of international qualifications for admission to our degrees. Advanced entry may be possible in certain cases (from the 2025/26 academic year onwards).

Please contact us at bahrain@strath.ac.uk for further information and advice on possible entry points and criteria.

University of
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Bahrain