

FACULTY OF PHARMACEUTICAL SCIENCES



ucsiuniversity.edu.my





TOP 1% GLOBALLY

QS World University Rankings 2024

ONE OF ASIA'S BEST PRIVATE UNIVERSITIES

UCSI University stands out as one of Asia's best-ranked private universities in the QS World University Rankings 2024. Ranked 300, UCSI is classified in the world's top 1%.

UCSI was the only university in the world to receive the QS Recognition for Improvement Award in 2023 - an accolade that recognises universities that improve the most ranks on average.

UCSI'S SUBJECT MILESTONES

**QS World
University
Rankings by
Subject 2023**

#21

PERFORMING
ARTS

#34

HOSPITALITY AND
LEISURE MANAGEMENT

TOP 150

PETROLEUM
ENGINEERING

TOP 200

ART AND DESIGN

TOP 200

BUSINESS AND
MANAGEMENT STUDIES

TOP 300

PHARMACY AND
PHARMACOLOGY

TOP 330

SOCIAL SCIENCES
AND MANAGEMENT

TOP 400

CHEMICAL
ENGINEERING

TOP 600

MEDICINE

#1

**MALAYSIA'S TOP
PRIVATE UNIVERSITY
FOR GRADUATE
EMPLOYABILITY AND
OUTCOMES**



**Malaysia's top private
university for graduate
employability**

Higher Education Ministry's Graduate Employability 2021-2022 survey.



**Malaysia's top private
university for
employment outcomes**

QS World University Rankings 2024



**Four Forbes 30 Under
30 Asia inductees**



**Two Prestige 40 Under
40 laureates**



UCSI University is the first and only private university in Malaysia to receive a double recognition as Regional Centre of Expertise (RCE) by the United Nations University : RCE Kuching and RCE Greater Kuala Lumpur



**100%
EMPLOYABILITY
SCORE**

for all UCSI programmes listed in the Malaysian Higher Education Ministry's Graduate Employability 2022 Survey



MORE THAN 4,600
global companies provide our students with internships



of our Co-Op partners would like to hire UCSI Interns

Students from over

120 NATIONS



International students make up around 30% of UCSI's student population



**20 UCSI
ACADEMICS**

are Fellows of Academy of Sciences Malaysia or ranked in the World's Top 2% Scientists by Stanford University

>63%

of UCSI's academic staff are PhD holders and a further 15% are pursuing their doctorate



The 1st university in Malaysia's private higher education sector to offer programmes in Aquatic Science, Biotechnology, Food Science, Music and Nutrition



The artist's impression of UCSI's education city in Kuala Lumpur

EMPOWERING CHANGEMAKERS

UCSI University is one of Asia's top private universities. It is classified in the world's top 1% in the QS World University Rankings 2024, by virtue of its top 300 ranking. UCSI was the only university to receive the QS Recognition for Improvement Award - an award given to universities that improve the most ranks on average - at the 2023 QS EduData Summit in New York. And the University has steadily enhanced its global profile over the past decade.

Changemakers study here. Four UCSI alumni are Forbes 30 Under 30 Asia inductees. From social entrepreneurship to impactful visual storytelling, they raise aspirations and win the respect of the world. Two more alumni are Prestige 40 Under 40 laureates for their contributions to Malaysia's music industry. And many more entrepreneurs, scientists, doctors, media personalities, musicians and national athletes make up UCSI's acclaimed alumni network.

Research and scholarly pursuit are part of UCSI's DNA. The University is equipped with state-of-the-art labs that feature the latest IR4.0 technologies in engineering, medicine, pharmacy and biotechnology. Students learn from academics who are at the forefront of their respective disciplines. UCSI's collaboration with some of the world's best universities also presents invaluable opportunities for students.

Since 2014, UCSI's top students have been annually selected to advance high-impact research at Harvard University, Imperial College London, the University of Chicago, Tsinghua University, the University of Queensland and the University of British Columbia, among others. UCSI students have gone on to work with some of the world's best minds in the fields of endocrinology, nanotechnology, pharmacology and materials science, among other critical fields.

Graduate employability is another one of UCSI's calling cards. The University has a 100% employability score in the Malaysian Higher Education Ministry's Graduate Employability 2022 survey. UCSI counts over 4,600 companies in its industry network. This includes many of the world's best firms like Accenture, CIMB, Deloitte, DHL, EY, HP, HSBC, KPMG, Maybank, Nestle, Samsung, Schlumberger, P&G, Petronas and PWC, among many others. This dynamic setup facilitates internship arrangements, joint research opportunities, technology transfers and of course, job offers.

With these unique strengths and more, UCSI stands out as a university that offers an education few can, provides experiences others can't and delivers game-changing outcomes for students around the world.

Faculty of Pharmaceutical Sciences

OUR BACHELOR OF PHARMACY (HONS) PROGRAMME IS FULLY ACCREDITED BY THE PHARMACY BOARD MALAYSIA.

Pharmacists do much more than fill prescriptions. They are an integral part of the healthcare system and have the capacity to directly affect the lives and lifestyles of the people with whom they interact. The pharmaceutical industry is also reputed to be one of the most demanding in terms of professionalism and excellence.

Established in 2000, UCSI's Faculty of Pharmaceutical Sciences stands out as one of Malaysia's first private pharmacy schools. Offering both undergraduate and postgraduate programmes with a strong emphasis on serving the community, the Faculty is made up of a team of dedicated academic staff who are leading researchers in their own right and cutting-edge research facilities.

The integration of coursework with research findings in our teaching enables our students to understand and extend their power of creative and critical thinking in their pursuit of new knowledge. We also provide students with research attachment opportunities at leading institutions such as University of British Columbia in Canada, University of Chicago in USA, and Nihon Pharmaceutical University in Japan. Many of our students publish papers in international refereed journals while others present their findings at national conferences. This speaks volumes about the calibre of our students and who will be part of your cohort as it is an integral part of your lifelong network.

This is just a microcosm of the culture of excellence that you will experience first-hand at UCSI University. Your studies here will be insightful as you immerse yourself with the depth of knowledge involved in developing medicinal products, from the discovery of lead compounds to product launches and marketing. You will learn from and work with the best as you contribute to the pursuit and expansion of knowledge. Your journey begins here, at UCSI.

23 YEARS

of experience as a highly established faculty

98% PASSING RATE

for three years in the Qualifying Examination for Registration as a Practising Pharmacist.

> 1,500

pharmacists have graduated from UCSI.

More than **87%** of our faculty staff are PhD holders (double the number compared to other institutions).

Distinguished teaching staff who win

MULTIPLE RESEARCH GRANTS EACH YEAR

RESEARCH OPPORTUNITIES

at leading universities

Why study Pharmaceutical Sciences at UCSI?

> 240 HRS OF CUMULATIVE ATTACHMENT IN COMMUNITY PHARMACY, INDUSTRY AND HOSPITAL

ACHIEVED 100% GRADUATE EMPLOYABILITY SCORE IN A MINISTRY OF HIGHER EDUCATION SURVEY (FROM 2019 TO 2021)

STUDENT-CENTRED LEARNING AND TEACHING

Renowned Academics

Learn from a team of acclaimed professors and academics who are at the forefront of their respective disciplines. Work with them, be mentored by them and benefit from their wealth of experience.



PROFESSOR DR MOGANA SUNDARI RAJAGOPAL

Dean, Faculty of Pharmaceutical Science

*PhD (Pharmacy)
BPharm (Hons)*



PROFESSOR DR PALANIRAJAN VIJAYARAJ KUMAR

Head of Department, Pharmaceutical Technology

*PhD Pharmaceutical Technology
MPharm Pharmaceutics
BPharm*



POR CHOO SHIUAN

*Acting Deputy Dean
Head of Faculty Internal Quality Assurance*

*Master of Clinical Pharmacy Practice
Bachelor of Pharmacy (Hons)*



ASSOCIATE PROFESSOR DR MAI CHUN WAI

Head of Department, Pharmaceutical Chemistry

*PhD Medical and Health Sciences
BPharm (Hons)*



ASSISTANT PROFESSOR DR CHEW YIK LING

Head of Postgraduate Studies

*PhD Pharmaceutical Sciences
BSc (Hons) Biotechnology*



ASSISTANT PROFESSOR DR FAZLOLLAH KESHAVARZI

Head of Department, Clinical Pharmacy

*PharmD
M. Pharm (Clinical Pharmacy)*



ASSISTANT PROFESSOR DR RAVISHANKAR RAM MANI

Head of Research

*PhD Biomedical Genetics
MSc Biochemistry
BSc Biochemistry*



ASSISTANT PROFESSOR DR SASIKALA CHINNAPPAN

Head of Department, Pharmaceutical Biology

*PhD (Pharmacology)
M.Pharm
Bachelor of Pharmacy (Hons)*



ASSISTANT PROFESSOR DR MUHAMMAD JUNAID FARRUKH

Head of Praxis, Industry and Community Engagement (PICE)

*PhD (Clinical Pharmacy)
MSc Clinical Pharmacy
Bachelor of Pharmacy*

Core Values



Foundation

The Fourth Industrial Revolution is changing the technological landscape of healthcare, industry and personal care sectors, where both pharmacists and formulation scientists will play a pivotal role in the effort. There is a high demand for innovative and dynamic pharmacists and formulation scientists to accommodate the rising needs in this field.

Getting an ideal start has never been more important. To address future challenges in these sectors, this Foundation in Science with pharmaceutical pathway is specially designed to equip students with knowledge and insights on the future of healthcare and various industries including pharmaceuticals, cosmeceuticals, nutraceuticals, and herbaceuticals, among others. Students will study in a well-resourced, supportive learning environment and enjoy strong exposure to industry trends and developments.

Furthermore, this pathway focuses on core disciplines of pharmaceutical sciences and offers you an excellent opportunity to gain head-start advantages as you progress into UCSI's acclaimed Bachelor of Pharmacy or Bachelor of Formulation Science.

At UCSI University, you will be taught by an experienced team of professors and academics who have strong ties with leading players of the pharmaceutical industry. Take the opportunity to be mentored by them and inculcate independent and critical thinking skills. Above all, fulfil your potential in a dynamic and lively environment that encourages exploration and discovery.

Start Focused. Stay Ahead.

UCSI's specialised foundation pathway helps you acquire a much stronger grasp of your chosen field of study while covering the overall reach of a standard foundation programme. Apart from helping you immensely as you progress to degree studies, UCSI's foundation programme also provides you with an early taste of what the industry expects.

Compulsory Courses

- General Chemistry 1
- General Chemistry 2
- General Biology 1
- General Biology 2
- General Physics 1
- Introduction to IR4.0 Technologies for Sustainable Development
- Fundamentals of Mathematics
- Introduction to Probability & Statistics
- Algebra & Trigonometry
- Introductory Calculus
- Computing Essentials



Elective Courses (choose any 3)

- Introduction to Pharmacy
- Introduction to Formulation Science
- Biotech & Forensics: the Science that Drives Life
- Food & Nutrition: Journey Towards Health
- Current Topics in Aquaculture
- Role of Engineers in Society
- Elementary Engineering Design
- Introduction to Medical Sciences
- Soft Skills for Healthcare Professionals



Bachelor Degrees (Hons)

Bachelor of Pharmacy

OR

Bachelor of Formulation Science

English Language Requirement for Foundation in Science

Candidates with a minimum grade of A2 in UEC English Language, Band 2 in MUET, 30-31 in TOEFL, 4.0 in IELTS, grade C in O-Level or IGCSE or SPM English 1119, grade B1 (with at least 2 skills at B1) in CEFR, 140 in Cambridge English Qualification, 140 in Cambridge Linguaskill, and 36 in Pearson Test are exempted from SE004 Basic English and SE005 English Foundation. Other equivalent qualification can be exempted on case-by-case basis.

Candidates who scored lower than B+ in SPM English Language or than the above requirement will have to take the SE004 Basic English subject before taking the SE005 English Foundation subject in the foundation year.

Diploma in Packaging Science and Technology

(N/0512/4/0001) (10/2027) (MQA/PA15593)

The Diploma in Packaging Science and Technology programme provides students with the knowledge and technical skills to contribute effectively to the design of packaging products and their development to solve conventional packaging problems in the industries. The programme trains students to become professional packaging technologists to drive innovation and product packaging quality in the industries, with a pathway to the Bachelor of Formulation Science programme upon graduation.



FIRST

Packaging Science and Technology
Diploma Programme in Asia!

Job-ready education for students.
Learn the science of packaging using current technical standards and technology.
Intensive Praxis hands-on approach and industry attachments to improve skills in consumer and industrial products
hands-on approach to sustainable natural packaging

Job placement opportunities in manufacturing industries such as pharmaceutical, food and beverage, textiles, and others

Subject Listing

Year 1

- Bahasa Melayu Komunikasi 2 (MPU-U1)
- Pengajian Malaysia (International) (MPU-U1)
- Extracurricular Learning Experience 1
- General Chemistry
- Environmental Science
- Mathematics
- General Physics
- Packaging Instrumentation
- Biosafety and Biosecurity
- Introduction to Analytical Chemistry
- Introduction to Biotechnology
- Introduction to Packaging Science
- Introduction to Biological Products
- Fundamentals of Microbiology
- Packaging Materials
- Health and Wellness Products
- Print Production (ICAD)

Year 2

- Packaging and Display Design
- Introduction to Spectroscopy
- Chemical Products
- Introduction to Product Formulation and Development
- Polymer Chemistry for Packaging Materials
- Packaging Processes, Containers and Closer Systems
- Extra-Curricular Learning Experience 2
- Material Science
- Packaging and Distribution
- Quality Control and Assurance of Packaging
- Food Products
- Principles of Entrepreneurship (MPU-U2)
- Material Science
- Packaging and Distribution
- Industrial Internship

Diploma in Pharmacy

(N/0916/4/0002) (08/2027) (MQA/PA15685)

The Diploma in Pharmacy programme provides students with the skills and knowledge needed to contribute effectively to the healthcare and pharmaceutical industries as pharmacy assistants and technicians. The programme aims to strengthen the nation's need for competent and qualified pharmacy support staff in the healthcare sector by educating students on various aspects of pharmacetics, pharmacy practices, communication skills, healthcare management and entrepreneurship and includes attachments in hospital, community, and industrial settings.

Get skilled to support the **pharmaceutical practice** and industry.



Hands-on PRAXIS with industry, hospital, and community pharmacies



Community pharmacy attachment sites

- Juzcare Pharmacy
- Guardian Pharmacy
- Alpro Pharmacy
- Big Pharmacy
- Caring pharmacy
- and many more

Industrial attachment sites

- Natural Wellness Industries
- Y.S.P. Industries
- Thermo Fisher Scientific
- Xepa-soul Pattinson
- Dynapharma
- and many more

Hospital attachment sites

- Kuala Lumpur Hospital (HKL)
- Sungai Buloh Hospital
- Ampang Hospital
- Selayang Hospital

Subject Listing

Year 1

- Bahasa Melayu Komunikasi 2 (International students only) (MPU-U1)
- Penghayatan Etika dan Peradaban (Malaysian students only) (MPU-U1)
- Extracurricular Learning Experience 1 (MPU-U4)
- Anatomy & Physiology
- General Chemistry
- Microbiology
- Introduction to Pharmaceutics
- Professional Skills & Development
- Organic and Inorganic Chemistry
- Liquid Dosage Forms
- Dispensing Techniques & Communication
- Medical Devices & Equipment/Compounding Pharmacy/Geriatric Care *
- Community Attachment #

Year 2

- Solid Dosage Forms
- Semisolid Dosage Forms
- Introduction to Pharmacy Management
- Pharmacology & Pharmacotherapy of Main Body Systems
- Clinical Pharmacy & Pharmacy Practice
- Extra-Curricular Learning Experience 2 (MPU-U4)
- Sterile & Non-Sterile Compounding
- Quality Control of Pharmaceutical Products
- Antimicrobial Therapy
- Pharmacology & Pharmacotherapy of Special Body Systems
- Vitamins, Herbal Supplements & Nutrition/ Management in Pharmacy Services/ Pharmacy Law (Regulations & Standards) *
- Principles of Entrepreneurship (MPU-U2)
- Industrial Attachment #

6 months of attachment after Year 2

- Hospital Pharmacy #

*Core Elective

#Industrial Training

Career Opportunities

Government or private hospital pharmacy assistant | Community pharmacist | Medical or healthcare sales representative | Quality control assistant | Sales and marketing executive | Health service manager | Pharmacy lab assistant

Diploma in Cosmetic Science

(N/0531/4/0001) (10/2027) (MQA/PA15586)

This course is for those interested in pursuing a career in the cosmetic sciences and the business side. It intends to provide an introductory overview of the cosmetic product development, beauty care and cosmetics market and explore career options for the cosmetic chemist. The programme syllabus includes the roles & responsibilities of a cosmetic chemist, suggestions and tips on how to get started with a new career in the cosmetics field.

Tap into the **rising industry of cosmetics**



Job-ready education for students in an industry with high demand



Experiential learning with **210 hours (1 month)** of attachment in cosmetic companies



Opportunities to establish successful SMEs with your own formulas as an entrepreneur in the cosmetics industry.

Subject Listing

Year 1

- Penghayatan etika dan peradaban Malaysia (Malaysian students only) (MPU-U1)
- Bahasa Melayu Komunikasi (International students only)
- Extra-curricular learning experience (MPU-U4)
- Cosmetic chemistry #
- Cosmetic skin biochemistry #
- Skin microbiology #
- Human cell biology
- Fundamental of microbiology
- Cosmetic raw materials and excipients
- Cosmetic dermatology and trichology
- Cosmetic preparations 1
- Analytical science and instrumentation
- Topical nutraceuticals
- Packaging & design of cosmetic products
- Colloidal science of cosmetics

Year 2

- Cosmeceutical processes and technologies
- Cosmetic preparations 2
- Data analytics and artificial intelligence*
- Cosmetic GMP regulations and guidelines
- Industrial Management
- Extra-curricular learning experience 2 (MPU-U4)
- Perfumery, aromatherapy & cosmetic photonics
- Pharmacology and toxicology
- Herbal cosmetics
- Cosmetic entrepreneurship
- Cosmetic aerosols
- Principles of entrepreneurship (MPU-U2)
- Industrial internship

#Pre-requisite

*Core elective

Career Opportunities

Cosmetic product specialist | Packaging supervisor | Quality assurance chemist | Cosmetic manufacturing operator | Research and development cosmetic chemist | Quality control supervisor | Cosmetic production cum maintenance technician | Cosmetic chemist | Skincare marketing executive | Skincare sales executive | Cosmetic warehouse manager | Perfumery manager | cGMP manufacturing supervisor | Skin consultant or advisor | Cosmetic regulatory executive

Bachelor of Pharmacy (Hons)

(R2/0916/6/0008)(10/2027)(MQA/FA7765)

Fully accredited by the Pharmacy Board Malaysia, UCSI University's Bachelor of Pharmacy (Hons) is well-known among industry practitioners and employers. Hands-on approach and student-centred, the programme is designed to encourage students to become independent learners who are capable of undertaking and understanding challenges in the use of medicine and in healthcare. The programme is geared towards the patient as the major focus for the application of knowledge of pharmaceutical sciences. There are four main areas within the programme: Physiology and Pharmacology, Pharmaceutical Chemistry, Pharmaceutics and Pharmaceutical Technology, and Clinical Pharmacy and Pharmacy Practice. This programme will equip you with the scientific, clinical and professional knowledge as well as strong communication skills to positively impact the healthcare system.

* This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)

Student Exposure

During semesters, students also get exposure of professional training at different community pharmacies, industrial and hospital pharmacy settings.

Community pharmacy attachment sites

- Juzcare Pharmacy
- Health Lane Family Pharmacy
- Guardian Pharmacy
- Caring pharmacy
- Alpro Pharmacy
- And 100 more sites
- Big Pharmacy

Industrial attachment sites

- Natural Wellness Industries
- Dynapharma
- Y.S.P. Industries
- EP Plus
- Thermo Fisher Scientific
- And 24 more sites
- Xepa-soul Pattinson

Hospital attachment sites

- Kuala Lumpur Hospital (HKL)
- Sungai Buloh Hospital
- Ampang Hospital
- Selayang Hospital

Research attachments at notable universities

- University of Chicago (USA)
- Virginia Commonwealth University (USA)
- University of British Columbia (Canada)
- Nihon Pharmaceutical University (Japan)
- Universitas Gadjah Mada (Indonesia)
- Universitas Muhammadiyah Purwokerto (Indonesia)
- Universitas 17 Agustus 1945 (Indonesia)
- Manipal Academy of Higher Education (India)
- University of Brunei Darussalam (Brunei)
- Uskudar University (Turkey)
- University of Puthisastra (Cambodia)
- Shiraz University of Medical Sciences (Iran)
- Walailak University (Thailand)
- Delhi Pharmaceutical Sciences and Research University (India)

Subject Listing

Year 1

Semester I

- General Chemistry for Pharmacy
- Introductory Physiology
- Microbiology for Pharmacy
- Basic Pharmacology and Immunopharmacology
- Professional Skills I

Semester II

- Organic Chemistry
- Basic Medicinal Chemistry
- Biostatistics and Research Methods
- Nervous System and Pharmacotherapy I
- Professional Skills II

Year 2

Semester I

- Cardiovascular System, Blood and Pharmacotherapy
- Physicochemical Properties of Drugs and Active Pharmaceutical Ingredients
- Biochemistry for Pharmacy
- Antimicrobial Therapy I
- Pulmonary, Renal and Pharmacotherapy

Semester II

- Antimicrobial Therapy II
- Endocrine System and Pharmacotherapy
- Extemporaneous Preparation in Pharmacy
- Gastrointestinal System and Pharmacotherapy
- Pharmacognosy
- Marketing for Pharmacy

Year 3

Semester I

- Pharmaceutical Analysis I
- Dosage Form Design I
- Basic Pharmacokinetics
- Evidence Based Medicine
- Nervous System and Pharmacotherapy II
- Introductory Clinical Pharmacy

Semester II

- Clinical Pharmacokinetics
- Non-Prescription Drugs
- Dosage Form Design II
- Biotechnology and Pharmacogenomics
- Pharmacy Law and Ethics
- Pharmaceutical Analysis II

Year 4

Semester I

- Pharmacoepidemiology
- Pharmacotherapy I
- Undergraduate Research Project
- Cancer Chemotherapy
- Hospital Pharmacy Practice
- Geriatric Pharmacy
- Advanced Drug Delivery

Semester II

- Pharmacotherapy II
- Clinical Clerkship
- Industrial Clerkship
- Pharmacoeconomics
- Pharmacy Management
- Industrial Management
- Drugs of Abuse and Society

Career Opportunities

Community pharmacist | Industrial pharmacist |
Hospital and clinical pharmacist | Regulatory
pharmacist

Bachelor of Formulation Science (Hons)

(N/545/6/0103) (10/2025) (MQA/PA13963)

Asia's first bachelor in formulation science degree, provides students with in-depth knowledge and hands-on practical experience of the diverse fields in formulation science and technology. The programme trains students with creative and critical thinking, in addition to the research skills needed to design and formulate innovative products in pharmaceuticals, nutraceuticals, biopharmaceuticals, food, or chemicals. The primary focus of the programme is the intensive hands-on approach and attachments to industries to enhance the knowledge and skills of students for global careers. This programme will equip the students with entrepreneurship skills, marketing as well as the international and local regulatory and environmental standards, with a pathway to register for a related Masters in Pharmaceutical Sciences programme upon graduation.

Experiential Learning

Students at UCSI will gain invaluable experience through a 12-week industrial attachment at top industries.

Industrial attachment sites

- Y.S.P Industries
- Hovid Pharma
- Medispec
- Aurelia Pharma
- Wymed Pharma
- Amipro
- Duopharma Biotech
- And 24 more sites

Research attachments at notable universities

- University of Chicago (USA)
- Virginia Commonwealth University (USA)
- University of British Columbia (Canada)
- Nihon Pharmaceutical University (Japan)
- Universitas Gadjah Mada (Indonesia)
- Universitas Muhammadiyah Purwokerto (Indonesia)
- Universitas 17 Agustus 1945 (Indonesia)
- Manipal Academy of Higher Education (India)
- University of Brunei Darussalam (Brunei)
- Uskudar University (Turkey)
- Shiraz University of Medical Sciences (Iran)

Subject Listing

Year 1

- Biostatistics and Research Methods
- Introduction to Biological Products
- Introduction to Biotechnology
- Physical and Inorganic Chemistry
- Health and Wellness Products
- Biosafety and Environmental Science
- Introduction to Pharmacology and Physiology
- Organic Chemistry
- Introduction to Analytical Chemistry
- Formulation of Cosmeceuticals
- Basic Medicinal Chemistry

Year 2

- Separation Science and Chromatography
- Biochemistry
- Advances in formulation of parenteral
- Pharmaceutical Engineering
- Biopharmaceutics and Pharmacokinetics
- Packaging Design and Technology
- Instrumental Analysis
- Physicochemical properties of API
- Formulation liquid dosage forms
- Formulation of Solid and semi-solid dosage forms
- Co-Operative Placement I
- Bioinformatics
- Recombinant Technology

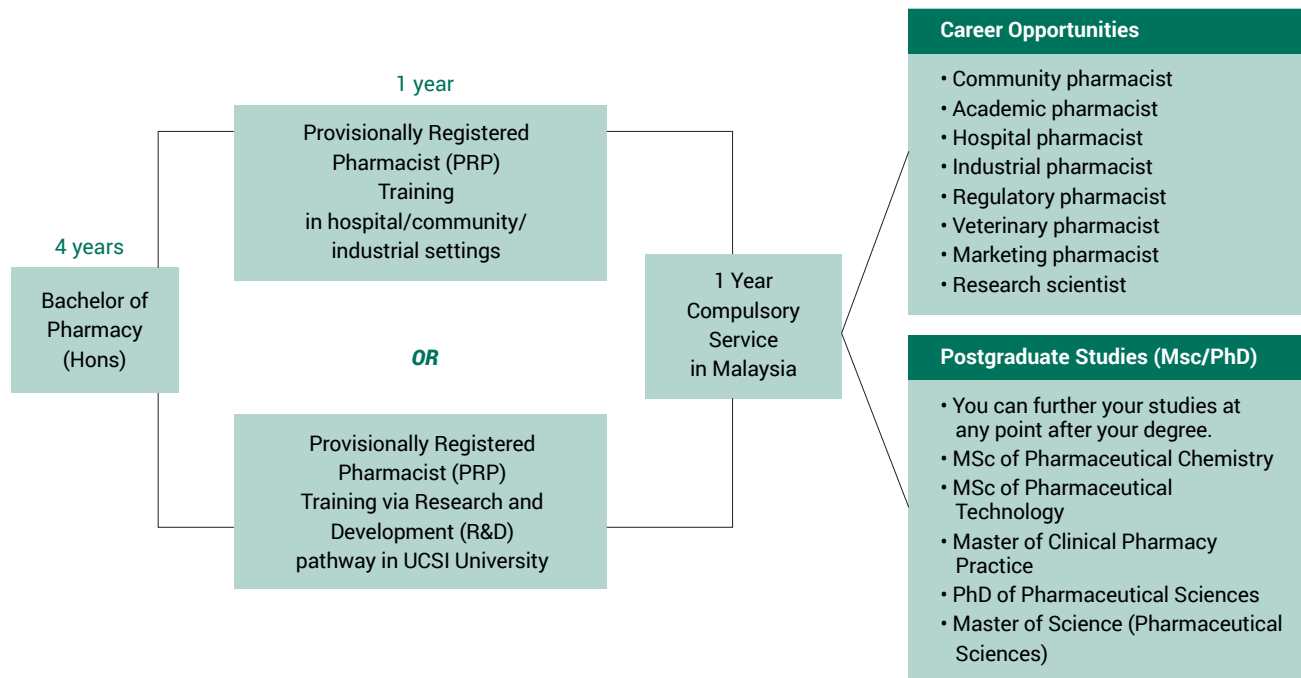
Year 3

- Introduction to Data Analytics and Artificial Intelligence
- Industrial Biotechnology
- Nutraceuticals and Supplements
- Advanced Drug Delivery
- Industrial Management and Regulations
- Co-Operative Placement II
- Research Project in Product Development I
- Quality Control and Assurance
- Diagnostic Agents and Kits
- Veterinary Products
- GMP Certification and Registration of Product
- Product Innovation and Entrepreneurship
- Research Project in Product Development II
- Fermentation Technology and Downstream Processing
- Product Sales and Marketing

Career Opportunities

Pharmaceuticals manufacturing specialist | Nutraceuticals production coordinator | Cosmeceutical manufacturing expert | Food and beverage production manager | Biotechnology research and development scientist | Veterinary products production specialist | Quality control and assurance manager | Regulatory services specialist | Product management specialist | Sales and support services representative | Research and development specialist

Career Pathway



Quality Education

Our students have exceeded a **98% passing rate** for **3 years in a row** in the Malaysian Qualifying Examination for Practising Pharmacists.

87% of our lecturers comprise of **PhD holders** and 65% are registered pharmacists with many years of contribution to pharmacy education and pharmaceutical research.



Experiential Learning

Pharmacy students at UCSI University gain invaluable experience through community, hospital, and industrial attachments.



Invaluable Opportunities

Our students are annually selected for research attachment programmes by top universities.



National Recognition

Our programme is Fully Accredited by the Malaysian Pharmacy Board.

The Pharmaceutical service division under the Ministry of Health recognises UCSI as a Provisionally Registered Pharmacist (PRP) training facility under the R&D pathway.



Student focused learning and teaching

Our programme emphasises on student-centred learning through problem-based learning, project-based learning, and pharmacist role play activities.

Our faculty staff and students are actively involved in various community outreach programmes such as:

- Public Health Campaign
- Know Your Medicine Campaign
- UCSI Pharmcare



Facilities

Faculty of Pharmaceutical Sciences offers state-of-the-art facilities to ensure students experience a conducive and efficient environment suitable for any study purpose or task related to the field.



A Pharmacy Postgraduate Lab is dedicated to facilitating cutting-edge research. The lab is equipped with advanced facilities like high performance liquid chromatography (HPLC), Fourier transform infrared spectroscopy (FT-IR), and UV-Visible spectrometer, among others.



The Pharmacy Project Lab enables students to understand the technologies used for drug formulation, formulation evaluation and quality assurance of drugs. This purpose-built lab facilitates various research projects.



The Pharmacy Practice Lab is used by students to practise and master their drug compounding and preparation skills in various dosage forms, including the injectables before entering the workforce. A new cleanroom facility is included in this lab.



The Physiology and Pharmacology Lab provides students the equipment and opportunities to explore disease mechanisms, new pharmacological tools and new medications.



Mock pharmacy is used to teach communication and other professional skills such as prescription evaluation, patient counselling and use of over-the-counter medications in an active-learning environment.

Hall of Fame

JAYA MUNESWARAO

Alumnus, B-Pharm; M.Pharm, PhD
Clinical Pharmacist (UF52), Ministry of Health,
Co-author of National Clinical Practice Guidelines
on Management of Asthma, Malaysia

"At UCSI, each student is armed with knowledge and tools for a successful career. The faculty members worked very hard on our overall development and provided us with opportunities to enhance our technical and interpersonal skills. UCSI played an important role in moulding me as a competent clinical pharmacist. UCSI provided the foundation for me to be a co-author of Clinical Practice Guidelines on Management of Asthma in adults and pursue my PhD."



JUSTIN OOI FENG JUN

Alumnus, Bachelor of Pharmacy,
Quality Manager in a Leading Global
Pharmaceutical Company

"B-Pharm course from UCSI has brought a tremendous impact to my life and career. It has refined me with necessary skillsets and knowledge in my role as a Industrial Pharmacist in the dynamic nature of pharmaceutical industry. With its excellent track records, graduates from the course are generally recognised and trusted in the industry, nationally and globally."



ALVIN TEO KUO JING

Alumnus, Bachelor of Pharmacy",
PhD Candidate at NUS Pharmacist
serving the Médecins Sans Frontières (MSF),
also known as Doctors without Borders

"I gained many things at UCSI – academic excellence, industry experience and effective communication skills. The lecturers have always been supportive and they played a significant role in moulding me to who I am today."



TAE WEY

Alumnus, Bachelor of Pharmacy,
Branch Manager @ Community Pharmacist
at Leading Chain Pharmacy

"As a community pharmacist, it is very important to learn soft skills because we deal with various patients. Lifelong learning, a culture that I obtained from UCSI is important for pharmacists, who are experts on medicine. From my experience, UCSI organises many community engagement and healthcare events, which help students to prepare for professional life."



NUR IZZATI BINTI ZAMANI

Alumna, Bachelor of Pharmacy (Hons)
Pursuing a master in a local university

The experience that I had with the faculty of pharmaceutical sciences at UCSI University was stimulating, enriching, and rewarding. The staffs and students you encounter here are very diverse which contributes to the unique and good study experience. The faculty provided us with resources that enabled me to set up the foundation for my career. Not to forget the lecturers who were just generous in knowledge and guided me in areas that they could whenever I needed their help.



GAN EE HOW

Alumnus, Bachelor of Pharmacy
Military Pharmacy (MilPharm)

Lieutenant Gan Ee How graduated from UCSI University BPharm programme in 2020, and is currently serving in military pharmacy (MilPharm). MilPharm is a professional and challenging career in ensuring military readiness and maintaining fighting strength of the Malaysian Armed Forces (MAF). Besides carrying out his duty in military, Lieutenant Gan Ee How has also published papers on the optimisation of pharmaceutical care for COVID-19 patients in Disaster Management Zone.



NUR ZAIHAN BINTI MUHAMMAD YUSOF

Alumna, Bachelor of Pharmacy
Pharmacist, Ministry of Health

"UCSI University has very diverse pool of students and staff and this makes it a very fine studying experience. They have a mentor-mentee support system and as a student I found it very helpful. Senior students and lecturers guide their mentees whenever they need help. We also have Skills Lab, which is based on students' role play, this allows us to improve our clinical skills."



GOH CHUHN HONG

Alumnus, Bachelor of Pharmacy
Aboriginal and Torres Strait Islander Health
Services Pharmacist
Puntukurnu Aboriginal Medical Services
(Australia)

Registered as Australia Health Practitioner Registration Agency (AHPRA) and Accredited for Medication Review by Australian Association of Consultant Pharmacy (AACP).



Faculty Events

KNOW YOUR MEDICINE CAMPAIGN

The "Know Your Medicine Campaign" sought to increase knowledge of the public on the rational use of medicines. It was jointly organised by the Faculty of Pharmaceutical Sciences and the Pharmaceutical Services Division, Ministry of Health. Along with a blood donation drive, this campaign also included personalised patient counselling in avoiding drug-related complications, prevention and early detection of life-threatening chronic diseases such as hypertension, diabetes, hyperlipidaemia and obesity.



PUBLIC HEALTH CAMPAIGN (PHC)

This is a community event organised annually for the public by pharmacy students of UCSI University. The main purpose of PHC is to increase health awareness among the public and to disseminate health information on the prevention of diseases. Since its inception in 2002, every year, a different health-related themes had been chosen such as cancer, mental illness and coronary heart disease etc.



WORLD PHARMACISTS DAY

UCSI University's Faculty of Pharmaceutical Sciences annually celebrates World Pharmacists Day to promote awareness about the importance and role of pharmacists. It focuses on the extensive expertise that pharmacists need to have to ensure better patient health. These expertise are applied through science and research, educating the next generation, and transforming patient needs into services. It is a platform to interact with industrial, community and hospital stakeholders.



BOOK PRIZE AWARD

The Book Prize award is aimed at providing ongoing motivation for outstanding students to improve in their academic pursuits sponsored by our prestigious partners namely Big Pharmacy, EP Plus, Medispec, Pharm-d, Xepa, Viartis, and Caring Pharmacy.



Faculty Events

PHARMACY PUBLIC OUTREACH FORUM

This annual event organised by the Faculty is held as a public forum that focuses on various complex health issues to emphasise the roles of pharmacists as the guardian of safety, efficacy and quality of medicines and supplements of the nation.



UCSI PHARMCARE COMMUNITY PROJECT

Organised by the students of pharmacy, the UCSIPharmCare programme aims to educate the underprivileged while promoting the pharmacy profession and enhancing students' communication skills by providing basic health screening tests and medication reviews to the disadvantaged.



OATH TAKING CEREMONY AND ALUMNI HOMECOMING

This is a yearly event that celebrates the accomplishment of final year students and UCSI alumni. It is a fun night where staff, students and alumni get the chance to interact with each other and have fun.



ZUMBA COLOUR FEST

Apart from organising many pharmacy profession-oriented events, our faculty organises recreational events like Zumba and Colour Festival. With Zumba, a workout becomes fun! The event was organised by the Faculty of Pharmaceutical Sciences with exercising being the biggest attraction! It was followed by the Colour Festival - an ice breaking session between students and lecturers for a relaxing and enjoyable atmosphere away from one's daily hectic routines!



Academic Requirements

QUALIFICATIONS	FOUNDATION IN SCIENCE	BACHELOR OF PHARMACY (HONS)	BACHELOR OF FORMULATION SCIENCE (HONS)
Intakes	February, June and September	September	February and September
SPM/O-Level	Minimum 5Bs including Biology, Chemistry, Physics, and Mathematics (or Additional Mathematics)	A minimum of 5Bs in Biology, Chemistry, Physics and Mathematics (or Additional Mathematics) and other one subject at School Certificate level or equivalent <i>*for Foundation in Science, Matriculation/ Pre-Study in Medicine or Pharmacy and Diploma holders</i>	Pass SPM or equivalent with minimum three (3) credits including Mathematics, Chemistry and one any other subject. <i>* for STPM/A-level/Diploma/Matriculation/ Foundation level</i> <i>*The credit requirement at SPM level can be waived should the grades obtained at the STPM/A-level/Diploma/Matriculation/ Foundation level</i>
WAEC/NECO	A minimum B in Chemistry, Biology, Physics and Mathematics	N/A	An aggregate of 60% including in Chemistry and Biology/Physics/Mathematics
Canadian Pre-U/Canadian International Matriculation Program/MUFY/SAM	Overall average of 65%, including Chemistry (14B) / (65%), Mathematics (13B) / (60%), and Biology/Physics (13B) / (60%)	Aggregate 80% include Chemistry, Biology and Physics or Mathematics in which minimum "B" in Chemistry or equivalent	An aggregate of 60% including in Chemistry and Biology/Physics/Mathematics
Year 11, Year 12, HSC and other equivalent qualification	A minimum of 65% in Chemistry, Biology, Physics, and Mathematics	Case by case basis	N/A
STPM	N/A	A minimum CGPA of 3.0 with at least 3Bs, 2A1C, or 1A1B1C in Biology, Chemistry, Physics or Mathematics with minimum B in Chemistry	A minimum CGPA of 2.0 with Grade C in Chemistry and Biology/Physics/ Mathematics
A-Level	N/A	A minimum of 3B or 2A 1C or 1A 1B 1 C in Biology and Chemistry and Physics or Mathematics with minimum "B" in Chemistry	Minimum Grade C in Chemistry and Biology/ Physics/Mathematics
Matriculation/Pre-Study in Medicine and Pharmacy/ Foundation in Science	N/A	A minimum CGPA of 3.0 with at least a B in Chemistry that involves a minimum of a year of study	A minimum CGPA of 2.0 with Grade C in Chemistry and Biology/Physics/ Mathematics
Diploma/Advanced Diploma or equivalent	N/A	A minimum ONE year of study in Diploma in Science with a minimum CGPA of 3.75 and B in Chemistry or in Diploma in Pharmacy with a minimum CGPA of 3.5	A minimum CGPA of 2.0 with Grade C in Chemistry and Biology/Physics/ Mathematics
AUSMAT/ TEE/ SACE/ HSC YEAR 12/ NTCE YEAR 12/ WACE YEAR 12/ Western Australian Curriculum Council/ University of New South Wales Foundation/ Trinity College Foundation/ Higher School Certificate-Sydney Australia	N/A	An aggregate of 80% including Chemistry (minimum B or equivalent), Biology, and Physics or Mathematics Or TER/UAI/ENTER/ATAR 80, including Chemistry (minimum B or equivalent), Biology, and Physics or Mathematics	N/A
UEC	N/A	A minimum of B4 in Biology, Chemistry, Physics, Mathematics and Additional Mathematics or one other subject	Minimum Grade C7 (GPA 2.0) in 5 subjects, including Chemistry and Biology/Physics/ Mathematics and any other three subjects
Degree in Science	N/A	A minimum CGPA of 2.75	A minimum CGPA of 2.0 with Grade C in Chemistry and Biology/Physics/ Mathematics
Indian Pre-University	N/A	Aggregate 70% for three subjects (Chemistry, Biology and Physics or Mathematics) with minimum "B" in Chemistry or equivalent	N/A
International Baccalaureate (IB)	N/A	A minimum of 30 points (exclusive of bonus points) for two Science or Mathematics subjects at Higher Level (HL) and another one Science subject at Standard Level (SL) with minimum 4 points for Chemistry, Biology and Physics or Mathematics	A minimum score of 26/42 in SIX subjects including Chemistry and Biology/Physics/ Mathematics
Other international qualifications deemed equivalent to STPM/A-Level by Malaysian Qualifications Agency	N/A	Aggregate 80% for three subjects (Chemistry, Biology and Physics or Mathematics) with 80% in Chemistry or equivalent	An aggregate of 60% including in Chemistry and Biology/Physics/Mathematics

Academic Requirements

QUALIFICATIONS	DIPLOMA IN PACKAGING SCIENCE AND TECHNOLOGY	DIPLOMA IN PHARMACY	DIPLOMA IN COSMETIC SCIENCE
Intakes	February, June and September	February and September	February, June and September
SPM/O-Level	Possess Sijil Pelajaran Malaysia (SPM) with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Possess Sijil Pelajaran Malaysia (SPM) with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Possess Sijil Pelajaran Malaysia (SPM) with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent
STPM	Pass Sijil Tinggi Persekolahan Malaysia (STPM) with a minimum of Grade C (GP2.00) in any subject, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Pass Sijil Tinggi Persekolahan Malaysia (STPM) with a minimum of Grade C (GP2.00) in any subject, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Pass Sijil Tinggi Persekolahan Malaysia (STPM) with a minimum of Grade C (GP2.00) in any subject, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent
STAM	Pass Sijil Tinggi Agama Malaysia (STAM) with a minimum grade of Maqbul, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Pass Sijil Tinggi Agama Malaysia (STAM) with a minimum grade of Maqbul, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent	Pass Sijil Tinggi Agama Malaysia (STAM) with a minimum grade of Maqbul, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent
SKM	Pass Sijil Kemahiran Malaysia (SKM) (Level 3, MQF) in a related field and possess SPM with one (1) credit	Pass Sijil Kemahiran Malaysia (SKM) (Level 3, MQF) in a related field and possess SPM with one (1) credit	Pass Sijil Kemahiran Malaysia (SKM) (Level 3, MQF) in a related field and possess SPM with one (1) credit
Certificate	A Certificate (Level 3, MQF) in a related field with a minimum CGPA of 2.00, or its equivalent	A Certificate (Level 3, MQF) in a related field with a minimum CGPA of 2.00, or its equivalent	A Certificate (Level 3, MQF) in a related field with a minimum CGPA of 2.00, or its equivalent
<i>Note: The credit requirement at SPM level can be waived should the grades obtained at the STPM/STAM/Matriculation level are equivalent/higher</i>			
UEC	Minimum grades of B in 3 subjects, inclusive of Mathematics and one science subject	Minimum grades of B in 3 subjects, inclusive of Mathematics and one science subject	Minimum grades of B in 3 subjects, inclusive of Mathematics and one science subject
Polytechnic/Certificate Equivalents	Minimum CGPA 2.0	Minimum CGPA 2.0	Minimum CGPA 2.0
Equivalent Courses	Case-by-case basis	Case-by-case basis	Case-by-case basis
Matriculation	CGPA of 2.0 and above with minimum Grade E in Chemistry and Biology/Physics/Mathematics	CGPA of 2.0 and above with minimum Grade E in Chemistry and Biology/Physics/Mathematics	CGPA of 2.0 and above with minimum Grade E in Chemistry and Biology/Physics/Mathematics
SAM	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics
CPU	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics
WAEC/NECO	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics	Aggregate 50% inclusive of Chemistry, Biology and Physics/Mathematics
International Baccalaureate (IB)	Minimum score of 20/42 in 6 subjects including Chemistry, Biology and Mathematics/Physics. Minimum scores of 3/7 in Chemistry, Biology and Physics/Mathematics	Minimum score of 20/42 in 6 subjects including Chemistry, Biology and Mathematics/Physics. Minimum scores of 3/7 in Chemistry, Biology and Physics/Mathematics	Minimum score of 20/42 in 6 subjects including Chemistry, Biology and Mathematics/Physics. Minimum scores of 3/7 in Chemistry, Biology and Physics/Mathematics

English Language Requirements

	QUALIFICATIONS	DIPLOMA	BACHELOR OF PHARMACY (HONS)	BACHELOR OF FORMULATION SCIENCE (HONS)
Local Students	MUET	3	3	3
	IELTS	4	Minimum score of 5.0	Minimum score of 5.0
	TOEFL iBT	30-31	Minimum score of 40	Minimum score of 40
	SPM/O-Level/IGCSE English	B+	C	B+
	English 1119	C	N/A	C
	UEC English	Minimum grade of A2	C	A2
	SPM/O-Level/IGCSE/ UEC Bahasa Malaysia	N/A	C*	C*
International Students	MUET	3	3	3
	IELTS	Minimum score of 4/5**	Minimum score of 5.0	Minimum score of 5.0
	TOEFL iBT	Minimum score of 30-31	Minimum score of 40	Minimum score of 40
	TOEFL Essentials (Online)	5	Minimum score of 7.5	Minimum score of 7.5
	Pearson Test	36	Minimum score of 47	Minimum score of 47
	Cambridge English Qualifications and Tests	140	Linguaskill Online score 154 Occupational English Test (OET): 200	

Local Students

ONLY APPLICABLE TO BACHELOR OF PHARMACY (HONS)

*Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before graduation.

For civil-servant positions, please refer to the Suruhanjaya Perkhidmatan Awam (SPA) guidelines for language requirements.

Credit in Bahasa Melayu and English at SPM level is required for government service positions.

ONLY APPLICABLE TO BACHELOR OF FORMULATION SCIENCE

*Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before graduation.

In the event that the English language requirements are not met, applicants will be required to take the Basic English and English Foundation for in-session academic enhancement concurrently with the programme.

International Students

International students not having proof of attaining any of the above test band scores may be issued a Letter of Conditional Offer allowing them to obtain the required band score through the pursuit of the English for Tertiary Education programme for up to 12 months. Students who fail to attain the required IELTS band score within 12 calendar months will not have their student visa extended. Those wishing to continue pursuing the English for Tertiary Education programme may apply for a new student visa to come back again. Students who successfully attained the IELTS band score must start their programme of study immediately and may not be allowed to change programme on the same student visa.

For more detailed information on the English requirement for international students, please refer to Student Handbook (Procedures & Guidelines) Undergraduate Programmes.

ONLY APPLICABLE TO INTERNATIONAL STUDENTS IN PROGRAMME DIPLOMA IN PACKAGING SCIENCE AND TECHNOLOGY

**IELTS minimum score of 5 is required.

ONLY APPLICABLE TO BACHELOR OF FORMULATION SCIENCE

Applicants who have an academic qualification from a higher learning institution which uses the English Language as a medium of instruction can be granted with exemption from the above requirements by providing a letter of alma mater registrar.

General Courses (MPU)

COMPULSORY FOR ALL STUDENTS

DEGREE PROGRAMMES		
MALAYSIAN STUDENTS	INTERNATIONAL STUDENTS	ALL STUDENTS
<ul style="list-style-type: none"> Philosophy and Contemporary Issues Appreciation of Ethics and Civilisations 	<ul style="list-style-type: none"> Philosophy and Contemporary Issues Communication in Bahasa Melayu 2 	<ul style="list-style-type: none"> U2 - Entrepreneurship and Networking Skills U4 - Extracurricular Learning Experience

While the above information is accurate at the time of printing, please note that entry requirements are subject to change. Please visit the university website for the most updated information.



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