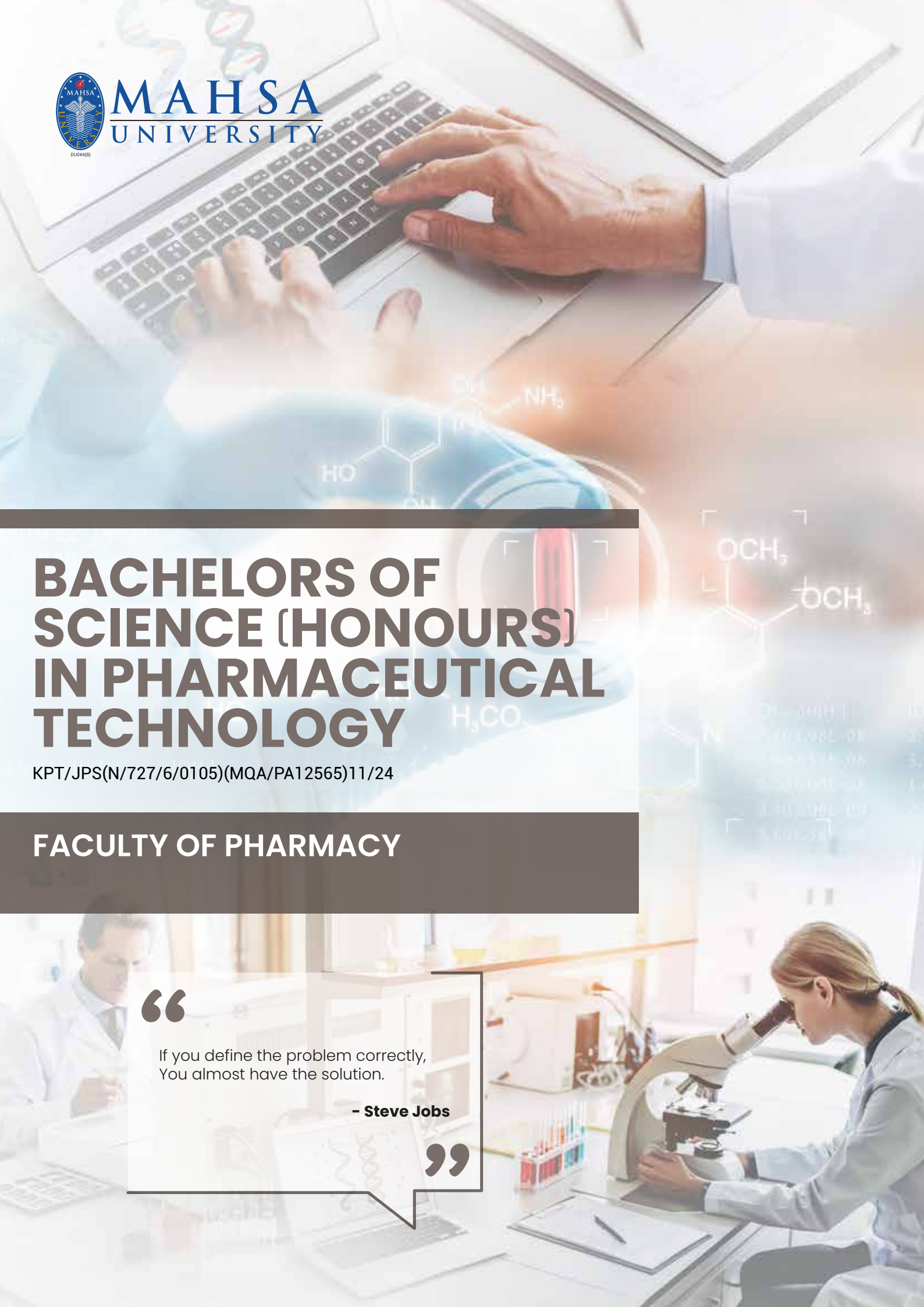
MAHSA UNIVERSITY

DU044(B)

BACHELORS OF SCIENCE (HONOURS) IN PHARMACEUTICAL TECHNOLOGY

KPT/JPS(N/727/6/0105)(MQA/PA12565)11/24

FACULTY OF PHARMACY



> If you define the problem correctly,
> You almost have the solution.
>
> **- Steve Jobs**

OVERVIEW

Bachelor of Science (Honours) in Pharmaceutical Technology is a 3 years undergraduate degree programme that stands distinctively unique compared to a Bachelor in Pharmacy in the aspects of drug discovery and development and the use of technology to produce results that are required for the global pharmaceutical demands. The objective of this programme is to produce knowledgeable and competent pharmaceutical technologist who can function effectively in work process design in pharmaceutical, cosmeceutical, pharmaceutical biotechnology, veterinary, pharmaceutical microbiology and radiopharmaceutical industries. Graduates will be equipped with the capability of adapting to global changes and current developments. This programme will prepare graduates to seek employment in research laboratories, in drug production, in regulatory services, in quality control and assurance management as well as in the marketing of pharmaceutical and other related products.

Mode of delivery of this programme includes lectures and tutorials, problem-based learning (PBL), presentation, computer-aided learning (CAL), laboratory practical, and industrial attachments. There will be a final year Industrial research project which students will need to complete before graduation.

PROGRAMME
STRUCTURE

Year 1 - Semester 1
- Introduction to Physiology
- Physical Pharmacy
- Introduction to Chemistry
- Scientific Basis of Therapeutics
- Biochemistry

Year 1 - Semester 2
- Pharmaceutical Engineering I
- Dosage Form Design I
- Medicinal Chemistry I
- Veterinary Pharmacy
- Principle of Laboratory Animal Sciences

Year 2 - Semester 3
- Pharmaceutical Engineering II
- Dosage Form Design II
- Pharmaceutical Microbiology
- Personal & Professional Development
- Immunology
- Analytical Chemistry 1
- Medicinal Chemistry II
- Phytopharmaceutical

Year 2 - Semester 4
- Dosage Form Design III
- Pharmaceutical Biotechnology
- Pharmaceutical Calculations and Biostatistics
- Introduction to Biopharmaceutics and Pharmacokinetics
- Pharmaceutical Quality Assurance
- Radiopharmacy
- Analytical Chemistry II

Year 3 - Semester 5
- Drug Delivery System
- Introduction to cosmetics & Cosmeceuticals
- Pharmacotoxicology
- Pharmaceutical Regulatory Control
- Research Methodology
- Industrial Attachment and Research Project I
- Complementary Medicine
- Drug in Sports and Lifestyle drug

Year 3 - Semester 6
- Industrial Attachment and Research Project II
- Principles of Marketing
- Computer Aided Drug Development System
- Pharmaceutical Management
- Pharmacoinformatics

ENTRY REQUIREMENTS

ACADEMIC QUALIFICATION	REQUIREMENTS
STPM / SPM	Pass STPM with a minimum of Grade C (GPA 2.33) in any two (2) subjects, 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 STAM with a minimum grade of Jayyid, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent;
Matriculation/Foundation	Minimum CGPA of 2.33, or its equivalent, and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent;
Diploma	(Level 4, MQF) in a related field with a minimum CGPA of 2.75, or its equivalent. *(Note: The credit requirement at SPM level for candidate in categories (i), (ii) and (iii) can be waived should the grades obtained at the STPM / STAM / Diploma / Matriculation / Foundation level are equivalent / higher.)*
South Australian Matriculation	Score 14 in 3 subjects Including Chemistry & Mathematics & Biology/Physics
New Zealand Bursary	Aggregate 65% for 3 subjects including Chemistry & Mathematics & Biology/Physics
Canadian Pre-University (CPU) /Canadian International Matriculation Programme (CIMP)/Monash University Foundation Pre-University Programme (MUFY)/ Western Australian Curriculum Council/Trinity College Foundation Studies/Higher School Certificate - Sydney Australia	Aggregate 60% for 3 Science subjects including Chemistry & Mathematics & Biology/Physics
University of New South Wales Foundation	Pass with 3 Principal D for 3 subjects including Mathematics & Chemistry & Biology / Physics
Indian Pre-University	75% aggregate for 3 subjects including Chemistry & Mathematics & Biology/Physics
American High School Diploma with Advanced Placement (AP)	CGPA 2.0 for 3 subjects including Chemistry & Mathematics & Biology/Physics
English Requirement	MUET: Band 3 | IELTS: 5.5

CAREER PROSPECTS

Upon the completion of this program, graduates will be able to work as:

- Industrial Pharmaceutical Technologist
- Formulation Design and Development Scientist
- Research and Development Officer
- Quality control & Assurance Officer
- Pharmaceutical Regulatory Officer
- Pharmaceutical Sales & Marketing Executive
- Pharmaceutical Lab Technologists in Academia
- Pharmaceutical Biotechnologist and Microbiologist
- Medical Coding Executive

MAHSA360

At MAHSA University, we provide our students with the opportunity to develop quality skills and understanding that go beyond their field of study which will prepare them for their next leap upon graduation.

MAHSA 360 is our specially designed ecosystem that works to ensure every student is nurtured and supported throughout their student journey.

MAHSA'S PASSPORT
TO SUCCESS

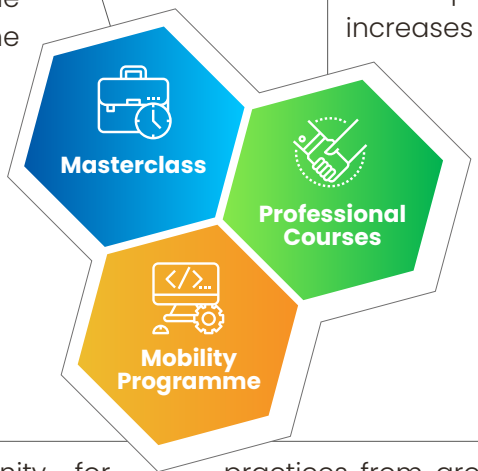
Professional Industry-Driven Education (P.R.I.D.E) is MAHSA University's specially designed education pathway that give students the best of both academic and professional certifications. Students have the opportunity to gain professional skills through various programmes from MAHSA's collaborations with internationally recognised professional bodies. P.R.I.D.E increases the employability rate of our fresh graduates and puts them on par with the rest in the professional world.

MASTERCLASS

Students of this programme are eligible to gain add-on certification in Masterclasses. There are more than fifty Masterclasses to choose from, and all are designed to further enhance the student's employability, in line with the Industrial Revolution 4.0.

PROFESSIONAL COURSES

Through MAHSA's collaboration with internationally recognised professional bodies, students will earn certifications that will enhance their professional skills and increases their employability rate.



MOBILITY PROGRAMME

This is a unique opportunity for students to study abroad for up to one year. This programme lets students experience different cultures and practices from around the world. Ask us about our university partners in over fifty different countries.

MAHSA
UNIVERSITY
BE MORE


Pharmacy Lab


Residences


Simulation Ward


The Habitat


Library


Clinical Skills Centre

Contact us

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