

**FACULTY OF APPLIED
SCIENCE AND TECHNOLOGY**

MASTER OF SCIENCE IN BIOINFORMATICS

(BY COURSEWORK)

JPT/BPP (N/545/7/0102)(MQA/FA10086) 10/23

Intake



January, April
and October

Duration



Full-time : 1.5years
Part-time : 3 years

OVERVIEW

The Perdana University School of Data Sciences, through its two centers for Bioinformatics and Computing provides a nurturing environment for students to prepare themselves to enter this rapidly expanding field. The demand for skilled bioinformaticians and researchers capable of the above is increasing globally at a rapid rate. Such personnel who can master the world of biology and computing would be the key drivers of the New Biology of tomorrow, which will be more data and precision-driven.

ENTRY REQUIREMENTS

Bachelor's Degree

(MQF) Level 6

OR

Minimum GPA of 2.75 or equivalent, as accepted by the Higher Education Provider (HEP) Senate

OR

Minimum CGPA of 2.50 and not meeting 2.75, can be accepted subject to rigorous internal assessment

OR

Not meeting CGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in relevant field.

ENGLISH LANGUAGE REQUIREMENTS

Local Students

Credit - Sijil Pelajaran Malaysia (SPM) 1119

OR

Pass - SPM English 1119 & obtained a minimum of 55% in English 112/113/114*

OR

Successfully completed (or exempted from) the Intensive English Programme (IEP) & obtained a minimum of 55% in ENG 112/113/114

OR

Malaysian University English Test (MUET) Band 3

International Students

International English Language Testing System (IELTS) Academic : Band 6.0 OR

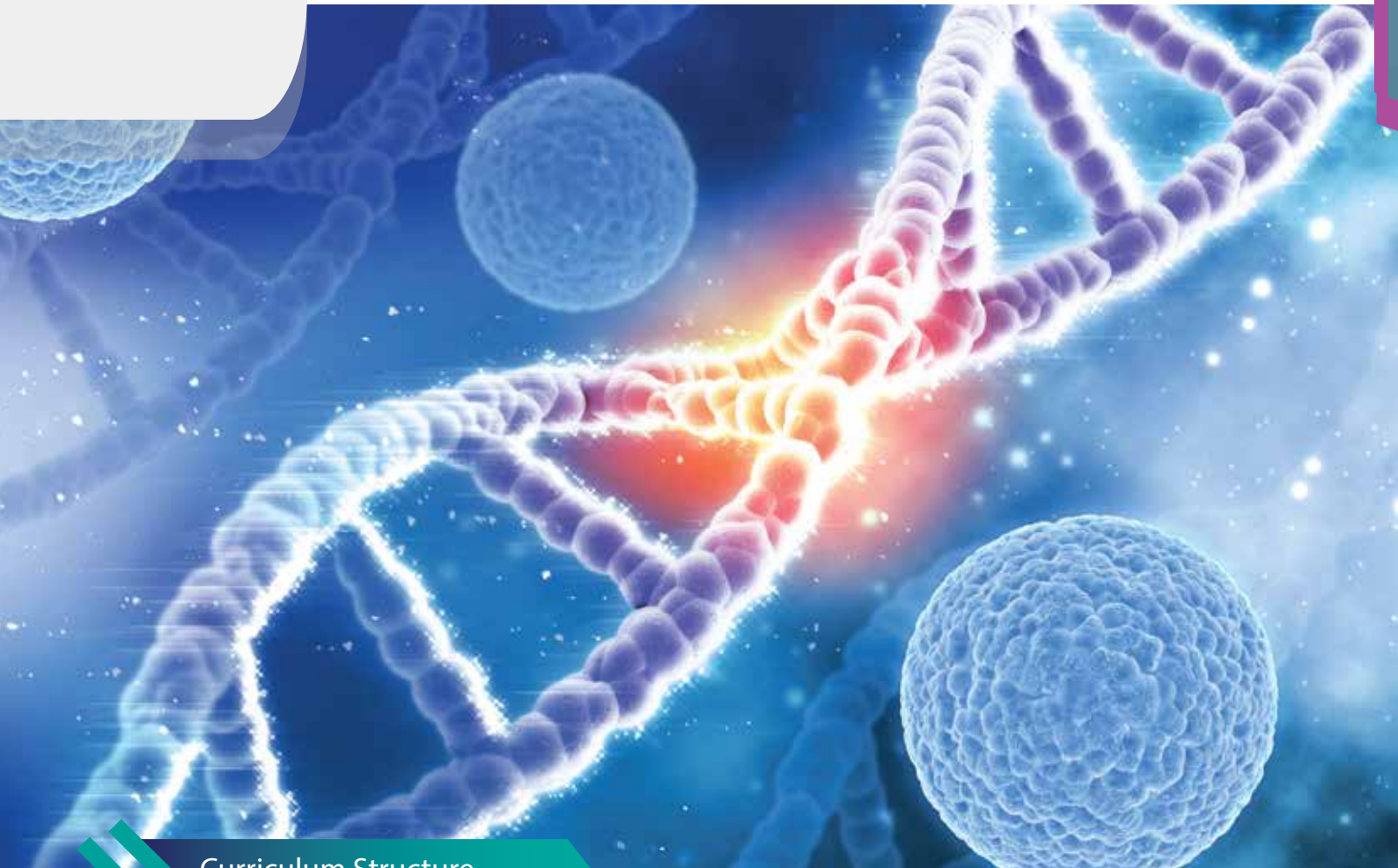
Test of English as Foreign Language (TOEFL) Paper-based 550 Internet based : 79 OR

Cambridge or Edexcel General Certificate of Education (GCE) or GCE O Level Grade C and above.

Career Prospects



- Academic
- Researcher
- Healthcare
- Bioinformatics



Curriculum Structure

YEAR 1

SEMESTER 1

- Biology in Bioinformatics
- Biostatistics
- Introductory Bioinformatics
- Critical Thinking & Scientific Communication
- Computer Programming

SEMESTER 3

- Research Seminar
- Bioinformatics Project

YEAR 2

SEMESTER 2

- Research Methodology
- Applied Computing in Bioinformatics
- Machine Learning

Elective (Choose one only)

- Genome Informatics
- Structural Bioinformatics
- Computational Methods in Biology

- ▶ Candidate must complete all the 10 core modules including Research Methodology, and 1 elective module

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The global need for qualified bioinformaticians, particularly in the Asia-Pacific region, is growing and cannot be met unless we can provide targeted skills training in the field of bioinformatics. The Master of Science (MSc) Bioinformatics offered by Perdana University are far-sighted and carefully thought out to meet these needs

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Education Pathway

SPM/O-Level/
UEC/IGCSE/
Certificate

Pre-U
(A-Level, STAM,
STPM & etc)
(1 year)

Foundation in
Science
(1 year)

Diploma in
Computer Science
(2 years)

Bachelor of Computer
Science in Data Science
(3 years)

Master of Science
Bioinformatics



Why Master of Science Bioinformatics at Perdana University?

- Competitive fees and modules

- Taught and supervised by faculty experts in the field

- After office hours/weekend classes, suitable for working adults or professional to upskill

- The programmes provide a balance between theoretical understandings and practical skills

- Access to an International network and job opportunities worldwide

- A focus on exposure to the research pipeline from inception and critique of ideas to communication and defence of research findings



About Perdana University

Perdana University (PU) is a prominent emerging private institution situated in Kuala Lumpur, Malaysia. It specializes in delivering academic programmes in Health Sciences, Social Sciences, and Technology at various educational levels, including foundation (pre-university), undergraduate, and postgraduate studies.

The official incorporation of Perdana University took place in the year 2011. Notably, in 2017, Perdana University received the prestigious Tier 4: Very Good rating in the Malaysian Higher Education Rating System (SETARA) for 2017 from the Ministry of Higher Education Malaysia (MOHE).



PERDANA UNIVERSITY RECOGNISED BY :



MINISTRY OF EDUCATION
THE PEOPLE'S REPUBLIC OF CHINA



PERDANA UNIVERSITY AWARDED BY :



THE BRANDLAUREATE
CSR BRANDLEADERSHIP
AWARDS 2018



Documents required for application

1. Student application form
2. Bursary application form
3. Copy of NRIC or Passport
4. Transcript and Certificate of highest qualification
5. English test results (if applicable)



Speak to our friendly
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Perdana University

