



PROGRAMME DESCRIPTION

This programme is the combination of two faculties: Health Sciences as well as Science and Engineering to produce products and services of value to society. Biotechnology is applied in processes ranging from cheese production, brewing, and wastewater management, through to drug design and gene therapy. It provides excellent knowledge of modern biotechnology, including molecular biology, and gain experience in research methods, data analysis, instrumentation and information technology and microbiology. This course trains students to work as a professional in one of the most exciting areas of modern science in combination of theoretical and specialized practical scientific training with the study of related business, legal, ethical and social issues.



PROGRAMME AIM

The aim of this course specially equips students with the knowledge, skills, competencies and awareness in preparation for employment in industry and research organizations. Professionals are able to work in an innovative research programmes in a wide range of areas like medical, industrial, bioinformatics, environmental, food and agricultural biotechnology.



PROGRAMME DURATION

Minimum Duration : 36 Months.

Maximum Duration : 60 Months.



INTAKE AND ENTRY REQUIREMENTS

1. January. 2. May 3. September

i. Pass STPM with a minimum of Grade C (GPA 2.00) 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;

or

ii. Pass STAM with a minimum grade of Jayyid, or its equivalent; and possess SPM with three (3) credits in Mathematics, one science subject and

or

iii. Matriculation/Foundation with a minimum CGPA of 2.00, or its equivalent, and possess SPM with three (3) credits in Mathematics, one science subject and one any other subject, or its equivalent;

or

iv. A Diploma (Level 4, MQF) in a related field with a minimum CGPA of 2.00, 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.

English competency for international students

International students are required to achieve a minimum score of 5.0 in IELTS OR Band 3 in MUET OR its equivalent.



LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

	COURSE NAME	CREDIT HOURS
Year1 Semester 1	Cell biology	3
	Biochemistry Introduction to Computer	3
	Organic Mechanisms in Biology	3
	Penghayatan etika dan peradaban (Local/International)	3
	Kursus Falsafah dan isu semasa (Local/International)	3
	English	3
Year1 Semester 2	Chemistry	3
	Biophysics	3
	Molecular Biology	3
	Genetics	3
	Basic Microbiology	3
	Leadership Skills and Human Relation (Local/International)	2

Call us :

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LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

Year 1 Semester 3	COURSE NAME	CREDIT HOURS
	Biostatistics	3
	Biochemistry	3
	Instrumentation	3

Year 2, Semester 1	Recombinant DNA Technology	3
	Biosafety, bioregulation & bioethics in Biotechnology	3
	Toxicology	3
	Bioinformatics	3
	Basic Cytology	3

Year 2, Semester 2	Plant Cell and Tissue Culture Techniques	3
	Plant and Animal Breeding	3
	Biodiversity & Taxonomy	3
	Basic Immunology	3
	Khidmat Masyarakat/Community Social Responsibility (Local/International)	2

Year 2, Semester 3

Internships or Industrial Training	6
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Year 3 Semester 1	Fermentation technology	3
	Developmental Biology	3
	Population genetics	3
	Medical Microbiology	3
	Research Methodology	3

Major Elective (4 of the following 6)-12 Credits

Year 3 Semester 2	Industrial Biotechnology	3
	Environmental Biotechnology	3
	Plant Biotechnology	3
	Animal Biotechnology	3
	Food Processing Technology	3
	Medical Biotechnology	3

Minor Elective (2 of the following 4)- 6 Credits

Entrepreneurship in Biotechnology	3
Marketing Management	3
Laboratory Management	3
Professional Skill for Biotechnology	3

Year 3, Semester 3

Research Project	9
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