



PROGRAMME DESCRIPTION

Microbiology is a rapidly growing science and the diversity of microorganisms seems enormous. Master of Science in Microbiology is designed to strengthen the scientific knowledge of life, growth of microorganisms and their interaction with environment that aim to solve a range of problems affecting human health, the environment, climate and food and agriculture. This program will provide an understanding of the basis of immune recognition and vaccine design, the infectious diseases and methods of control along with microbial biotechnology and parasitology. The student will develop an understanding of the importance of microbiology in environmental, agricultural and industrial settings. The field is of enormous importance and research in this discipline has been developed by new and exciting technologies such as proteomics, genomics, bioinformatics and genetic engineering. The curriculum for Microbiology is structured in a manner such that the students from pharmacy, medicine, biochemistry, environment, health science and other bioscience students could enroll in the program to enrich their capacity in the field of Microbiology in order to broaden their sphere of opportunities in the marketplace. The program is designed as a transformative program, which offers students the education, training, and first-hand experience essential for successful international careers.



PROGRAMME AIM

The purpose of this program is to encourage students to make unceasing and diligent efforts to pursue holistic self-development to cultivate self-discipline and integrity, to nurture creativity into broad-minded future leaders with international outlook. The program of Master in Microbiology will produce microbiologist who are:

1. Knowledgeable and technically competent in the advanced field of microbiology
2. Capable of designing scientific projects professionally by taking into consideration factors like value, ethics and take the responsibility to contribute to the society
3. Critical thinkers in providing solution utilizing knowledge and experience in making decision in microbiological application related problems
4. Competent with oral and written communications skills to discuss and present scientific information and helping to acquire leadership and team building skills
5. Proficient with information management skills to pursue advanced educational opportunities, along with the development of lifelong learning skills for enquiry based learning



INTAKE AND ENTRY REQUIREMENTS

1. January 2. May 3. September
Bachelor's degree (Level 6 Malaysian Qualification Framework, MQF) with a minimum CGPA of 2.50 or equivalent, as accepted by Lincoln University College;
Or
Bachelor's Degree (Level 6 MQF) or equivalent CGPA of 2.50 but did not reach, may be admitted subject to a minimum of 5 years working experience in the relevant field.



PROGRAMME DURATION

Minimum Duration : 18 Months.
Maximum Duration : 30 Months.



LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

NO.	COURSE NAME
1.	Microbial Biochemistry
2.	Genetics and Molecular Biology
3.	Microbial Physiology
4.	Bio-Informatics & Biostatistics
5.	Microbial Diversity and Taxonomy
6.	Microbial Techniques
7.	Enzyme Technology
8.	Immunology
9.	Research Methodology
10.	Research Project / Industrial Training
Elective courses: Choose any one elective course from the 5 groups offered	
Elective One: Medical microbiology	
11.	Medical Bacteriology and Virology
12.	Medical Mycology and Parasitology
13.	Medical Epidemiology
Elective Two: Environmental Microbiology	
14.	Air and Aquatic Microbiology



NO.	COURSE NAME
15.	Waste Treatment
16.	Agro Ecosystems
Elective Three: Industrial Microbiology	
17.	Industrial Microbes
18.	Large-scale Cultivation
19.	Commercialization
Elective four: Pharmaceutical Microbiology	
20.	Antibiotics and Synthetic Antimicrobial Agents
21.	Microbial Production and Spoilage of pharmaceutical Products
22.	Quality Assurance and Validation
Elective five: Food and Dairy Microbiology	
23.	Microbiology of food and food products
24.	Food fermentation and Food borne diseases
25.	Dairy Microbiology

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