



UNIVERSITI TEKNOLOGI MARA

MIC207: BASIC ENVIRONMENTAL MICROBIOLOGY

Course Name (English)	BASIC ENVIRONMENTAL MICROBIOLOGY APPROVED				
Course Code	MIC207				
MQF Credit	3				
Course Description	This subject covers various topics in environmental microbiology and deals with microorganisms and processes affecting the environment and man. Topics covered such as air, water and soil microbiology, environmental pollution and bioremediation technology. The course also integrating online learning as well as guided lecture face to face in the class and field trip. Student are also trained to use instrument for environmental quality parameter assessment and assigned with related research assignment.				
Transferable Skills	Demonstrate ability to manage personal performance to meet expectations and demonstrate drive, determination and accountability. Demonstrate ability to apply creative, imaginative and innovative thinking and ideas to problem solving.				
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Field Trip				
CLO	CLO1 Describe the basic elements of microorganisms and principle involved in the environmental microbiology both verbally and visually CLO2 Illustrate the concepts underlying the basic elements of microorganisms in environmental microbiology both verbally and visually CLO3 Observe, plan and conduct scientific investigations in areas of environmental microbiology CLO4 Discuss and report to peers and to the facilitator, the science investigations, the ways to operate instruments correctly including interpretation of the results				
Pre-Requisite Courses	No course recommendations				
Reading List	<table><tr><td>Recommended Text</td><td> • R. Mitchell 1974, <i>1. Introduction to Environmental Microbiology</i>, Prentice Hall U.K • G. Rheinheimer 1974, <i>Aquatic Microbiology</i>, Wiley New York • Gregory P.H. 1961, . <i>Microbiology at the Atmosphere</i>, Interscience Publisher New York • Sykes, G. & Skinner F.A. 1971, <i>Microbial Aspects of pollution</i>, Academic Press USA </td></tr><tr><td>Reference Book Resources</td><td> • Moo-Young M 1984, <i>Comprehensive Biotechnology, Vol 1-4</i>, , New York • American Public Health Association 1976, <i>APHA Standard Methods for the Examination</i> , New York • Norris J.R & Ribbons D.W 1971, <i>Methods in Microbiology, Vol 1.</i>, Elsevier • Walters J.K. 1981, <i>Industrial Effluent Treatment, Vol 1 & 2</i>, Elsevier Science Publication </td></tr></table>	Recommended Text	• R. Mitchell 1974, <i>1. Introduction to Environmental Microbiology</i>, Prentice Hall U.K • G. Rheinheimer 1974, <i>Aquatic Microbiology</i>, Wiley New York • Gregory P.H. 1961, . <i>Microbiology at the Atmosphere</i>, Interscience Publisher New York • Sykes, G. & Skinner F.A. 1971, <i>Microbial Aspects of pollution</i>, Academic Press USA	Reference Book Resources	• Moo-Young M 1984, <i>Comprehensive Biotechnology, Vol 1-4</i>, , New York • American Public Health Association 1976, <i>APHA Standard Methods for the Examination</i> , New York • Norris J.R & Ribbons D.W 1971, <i>Methods in Microbiology, Vol 1.</i>, Elsevier • Walters J.K. 1981, <i>Industrial Effluent Treatment, Vol 1 & 2</i>, Elsevier Science Publication
Recommended Text	• R. Mitchell 1974, <i>1. Introduction to Environmental Microbiology</i>, Prentice Hall U.K • G. Rheinheimer 1974, <i>Aquatic Microbiology</i>, Wiley New York • Gregory P.H. 1961, . <i>Microbiology at the Atmosphere</i>, Interscience Publisher New York • Sykes, G. & Skinner F.A. 1971, <i>Microbial Aspects of pollution</i>, Academic Press USA				
Reference Book Resources	• Moo-Young M 1984, <i>Comprehensive Biotechnology, Vol 1-4</i>, , New York • American Public Health Association 1976, <i>APHA Standard Methods for the Examination</i> , New York • Norris J.R & Ribbons D.W 1971, <i>Methods in Microbiology, Vol 1.</i>, Elsevier • Walters J.K. 1981, <i>Industrial Effluent Treatment, Vol 1 & 2</i>, Elsevier Science Publication				
Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				