

Access to H.E. National Programme Unit



Unit Title:	Microorganisms		
Graded Unit Code:	GA33BIO20	Ungraded Unit Code:	UA33BIO20
Pathway(s):	Health Science and Engineering		
Module(s):	Microbiology		
Level:	3	Credit Value:	3
Valid from:	1 st August 2014	Valid to:	31 st July 2024

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
2	Application of knowledge
7	Quality

LEARNING OUTCOMES		ASSESSMENT CRITERIA	
The learner will:		The learner can:	
1	Know the main features of the different classes of microorganisms.	1.1	Distinguish the features of eukaryotes, prokaryotes and akaryotes and use these to classify microorganisms.
		1.2	Identify bacteria, fungi, protists and viruses from descriptions, diagrams or photographs.
2	Understand the different modes of nutrition among microorganisms and how this affects their incidence and impact on other species.	2.1	Compare the modes of nutrition among microorganisms in terms of sources of energy and materials (heterotrophes, autotrophes, phototrophes, chemotrophes).

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
	2.2 Explain the distribution of different microorganisms in terms of their nutrition and tolerance to environmental conditions (temperature, oxygen etc.).
	2.3 Evaluate the impact of microorganisms on other species in terms of benefits and harm.
3 Understand the importance of the beneficial relationships between microorganisms and human populations.	3.1 Identify a range of useful traditional products made by humans using microorganisms, in each case explaining the benefit conferred by the microorganism.
	3.2 For one traditional product, suggest how a relationship between humans and a microorganism might have arisen and describe the transition from small scale production to industrial production.