Module Information			
Module Code Module		Semester	Mod. Credits
-	obes Which Changed Human History	2	4
Module Description			
	ule is to introduce students to the natu		
•	human activities. At the end of the mo		
position and role of humans	teractions between microorganisms an	d humans, ar	nd the
position and role of numaris			
Eligibility and requirements			
Prerequisites (prior knowled	ge required): NIL		
Corequisites: NIL			
Precluded modules (if any): 0	GEK1534, GEC1011, GEH1043		
Instructional methods			
The following instructional m	nethods will be employed:		
1) Lecture (11 sessions)	4) Field trip (1 session)		
2) Blended Learning (2 sessio		•	
3) Laboratory (2 sessions)	6) Group Presentations (4 session of the session of	ons)	
Assessment modes			
The following assessments w	ill be employed:		
1) Participation = 11%	4) Module Quiz = 4%		
2) CA = 25%	5) Individual Assignment = 30%		
3) Group Presentation = 30%			
Contact information for Mod	dule Coordinator and other instructors	,	
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## Course content and syllabus

Lectures:

1) History of microbiology (1 lecture)

2) Viral and bacterial plagues/epidemics (3 lectures)

3) Diseases that shaped Singapore's history (3 lectures)

- 4) Microbes shaping our individual and collective futures (2 lectures)
- 5) Student-selected topic (1 lecture)

## Learning activities

The following learning activities will be employed to achieve the learning outcomes of knowledge, cognitive skills, generic skills and/or attributes development stated in the 'Intended Learning Outcomes' below:

- 1) Interactive lectures
- 2) Group discussions
- 3) Presentation & writing workshops
- 5) Field trips & educational card games
- 6) Laboratory activities
- 7) Essay Writing

This module incorporates an assortment of instructional and learning activities that provide an exciting learning experience for students that are keen to learn more about how microbes have shaped human history. Activities are designed to engaged those without prior training in [micro]biology to bring the topics to life and show the relevance of microbes in not only our history but also everyday life.

## Intended Learning Outcomes

By the end of the module, students will be able to:

- 1. List some notable microbes and describe their role in shaping history (diseases & benefits)
- 2. Compare how diseases are spread and how they have been/are being managed
- 3. Determine how specific microbes/diseases of interest have shaped our lives in the present and future

This module will provide the opportunities to develop the following cognitive skills, generic skills and attributes:

Very Good Opportunities	Good Opportunities
1) Verbal/Oral Communication 2) Interdisciplinary Thinking	<ol> <li>Written Communication</li> <li>Analytical &amp; Critical Thinking</li> </ol>
3) Creative Thinking	3) Problem-solving & Decision-making
4) Collaboration & Teamwork Required and/or recommended readings	
Required and/or recommended readings	
NIL	