



UNIVERSITI TEKNOLOGI MARA

EVT536: ENVIRONMENTAL SAMPLING

Course Name (English)	ENVIRONMENTAL SAMPLING APPROVED
Course Code	EVT536
MQF Credit	3
Course Description	This course covers the analysis of environmental samples as water, air and soil consist of physical, chemical and biological parameter analysis. This course is studied from the acquisition of representative samples through sample handling, sample storage, analytical method and data interpretation
Transferable Skills	Sampling planning, sampling equipment handling, sample handling, sample storage, analytical method, presentation
Teaching Methodologies	Lectures, Demonstrations, Field Trip, Discussion
CLO	CLO1 To apply knowledge of analytical technique to environmental samples including water, air, and soil. CLO2 To display practical skills on the sampling of environmental samples. CLO3 To demonstrate information management and lifelong learning skills in developing conclusion based on the major physical, chemical, and biological parameters.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction to environmental analysis/Major equipment available in environmental analysis laboratory 1.1) N/A	
2. Environmental sampling and monitoring design 2.1) N/A	
3. Guidelines for handling and storage of soil sample/Soil analysis 3.1) N/A	
4. Pretreatment and extraction technique for contaminants in soil/Soil analysis 4.1) N/A	
5. Guidelines for handling and storage of water sample 5.1) N/A	
6. Pretreatment and extraction technique for contaminants in water sample/Water analysis 6.1) N/A	
7. Guideline for sampling, storage, and handling of air sample/Air analysis 7.1) N/A	

Assessment Breakdown	%
Continuous Assessment	70.00%
Final Assessment	30.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Field trip sampling plan (group project)	40%	CLO2
	Online Quiz	30 multiple-choice questions to be answered and submitted within 30 minutes time	20%	CLO1
	Presentation	15 minutes presentation for pre-field trip briefing on sampling plan	10%	CLO3

Reading List	Recommended Text	<ul style="list-style-type: none"> Chunlong (Carl) Zhang 2007, <i>Fundamentals of environmental sampling and analysis</i>, Wiley Hoboken, NJ, USA [ISBN: 978-0-471-710]
Article/Paper List	This Course does not have any article/paper resources	
Other References	<ul style="list-style-type: none"> ebook Chunlong (Carl) Zhang 2007, <i>Fundamentals of Environmental Sampling and Analysis</i> , Wiley, Hoboken, USA 	