



## UNIVERSITI TEKNOLOGI MARA

### IHS241: CHEMICAL SAMPLING AND INSTRUMENTATION

<b>Course Name (English)</b>	CHEMICAL SAMPLING AND INSTRUMENTATION <b>APPROVED</b>				
<b>Course Code</b>	IHS241				
<b>MQF Credit</b>	3				
<b>Course Description</b>	This course introduces chemical sampling techniques and analytical methods for airborne contaminant levels. The course cover principle of airborne contaminant, instrumentation and sampling technique, sampling strategy, sampling method, sample analysis and interpretation of result. Students will learn and practice used of various type of instrumentation, plan and conduct sampling. Student will also acquire skills and information to interpret results and prepare reports according to the appropriate requirements.				
<b>Transferable Skills</b>	1. Team work 2. Communication skills 3. Problem solving				
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Lab Work, Presentation				
<b>CLO</b>	CLO1 Understand the knowledge of monitoring system with attention to chemical monitoring - its main tasks, objectives, implementation principles and strategy. CLO2 Demonstrate the ability to properly calibrate exposure monitoring equipment. CLO3 Determine the appropriate sample flow rates, time and volume using validated sampling, and analytical methods. CLO4 Properly apply the appropriate sample results calculations for interpreting exposure data and comparing the results to the applicable exposure limits.				
<b>Pre-Requisite Courses</b>	No course recommendations				
<b>Reading List</b>	<table border="1"><tr><td><b>Recommended Text</b></td><td>• Debra Nims 1999, <i>Basics of Industrial Hygiene</i>, 1 Ed., Wiley [ISBN: 978-047129983]</td></tr><tr><td><b>Reference Book Resources</b></td><td>• Ronald M. Scott 1995, <i>Basic Concepts of Industrial Hygiene</i>, 1 Ed., CRC Press [ISBN: 978-156670292]</td></tr></table>	<b>Recommended Text</b>	• Debra Nims 1999, <i>Basics of Industrial Hygiene</i> , 1 Ed., Wiley [ISBN: 978-047129983]	<b>Reference Book Resources</b>	• Ronald M. Scott 1995, <i>Basic Concepts of Industrial Hygiene</i> , 1 Ed., CRC Press [ISBN: 978-156670292]
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<b>Article/Paper List</b>	This Course does not have any article/paper resources				
<b>Other References</b>	This Course does not have any other resources				