Subject Description Form

4. Toxic Metals and Elements

Hazardous substances list. Sources and effects of exposure to metals. Toxic heavy metals. Potential of toxicity. Metals for used in medical therapy.

5. <u>Pesticides and Other Organic Chemicals</u>

Hazardous substances list. Pesticides. Dioxins. PCBs. Organic solvents. Chemical used in manufacturing of plastics. Cleaning and household products. Environmental oestrogens.

6. Food Safety

Review on importance of food safety. Global burden of foodborne illness. Food hazards. Food disease prevention. Hazard analysis of critical control points.

7. Occupational Health

Historical review of occupational health. Significance of occupational environment for health. Occupational diseases and accidents. Prevention of occupational diseases.

8. Environmental Health Indicators

The natural environment. Built environment and social environment. Establishment of environmental health monitoring system.

9. <u>Technical writing on human health and environmental issues</u> Comprehension of technical texts. Organisation structures and language features to produce professional technical documents.

language features to produce professional technical documents. Workplace correspondence. Cohesion and coherence. Appropriate style, format, structure and layout.

Teaching/Learning Methodology

Lectures, tutorials

Activities include lecturer input, individual and group work involving drafting and evaluating texts, project presentations and discussions. Contexts that involve health problems will be used in the teaching and learning activities.

Learning materials developed by the English Language Centre are used throughout this course. Additional reference materials will be recommended as required.

Assessment Methods in Alignment with Intended Learning Outcomes

Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed			
		a	b	С	d
1. Continuous Assessment	35			✓	✓
2. Test and Quizzes	15	✓	✓	✓	~
3. Final Examination	50		✓	✓	✓
Total	100				

	Students must attain at least grade D in both coursework and final examination (whenever applicable) in order to attain a passing grade in the overall result.		
Student Study Effort Expected	Class contact:	Average hours per week	
	■ Lectures/ Tutorials	3 Hrs.	
	Other student study effort:		
	Coursework	2 Hrs.	
	■ Self Study	4 Hrs.	
	Total student study effort	9 Hrs.	

Reading List and References

Essential Textbooks

- 1. Beer, D. F. (Ed.). (2003). Writing and speaking in the technology professions: A practical guide (2nd ed.). Hoboken, NJ: Wiley.
- 2. Friis, R. H. (2007). *Essential of Environmental Health*. Boston: Jones and Barlett Publishers.
- 3. Lindsell-Roberts, S. (2004). *Strategic business letters and e-mail*. Boston: Houghton Mifflin.
- 4. Merrill, R.M. An Introduction to Epidemiology 5th Ed. Jones & Bartlett, 2010
- 5. Timbrell J. Principles of Biochemical Toxicology 4th Ed. London: Informa Healthcare

Reference Textbooks

- 1. Goldman, L. and Coussens, C. M. (Editors). (2004). Environmental Health Indicators. Washington, D. C.: Institute of Medicine of The National Academies Press.
- 2. Greenberg, R.S. et al. Medical Epidemiology 4th Ed. New York : Lange Medical Books/McGraw-Hill, 2005.
- 3. Lautenbach, E., Woeltje, K.F., Malani, P.N. Practical Healthcare Epidemiology 3rd Ed. Chicago: University of Chicago Press 2010.
- 4. Lu, F.C. S. Lu's basic toxicology: fundamentals, target organs, and risk assessment 5th Ed. Oxford, UK: Taylor & Francis, 2009.
- 5. Winder, C., Stacey, N.H. Occupational Toxicology 2nd Ed Oxford, UK: Taylor & Francis 2004.