**EHS 2210 OCCUPATIONAL HEALTH AND SAFETY (3 CU)**

**Course description:** The course describes the process of identifying and evaluating the effects of occupational hazards on health and how to critically evaluate the current strategies for the identification, control and prevention of work-related ill health. It also describes how to maintain a safe working environment.

**Course Objectives**

By the end of this course the student, should be able to:

1. Identify and evaluate the principal occupational diseases and conditions that impact workers in the East African region.
2. Discuss the role of employees and employers in the implementation of effective health and safety management systems in the workplace.
3. Explain the role of the EH practitioner and other key occupational health professionals in the identification control and prevention of work-related ill health.
4. Undertake risk assessment exercises in the workplace.
5. Develop and monitor effective control strategies for health hazards at work places.
6. Undertake an effective inspection of premises under the current occupational health and safety legislation and to produce a professional quality report, which identifies contraventions and suggests appropriate practical remedies.

**Detailed Course Outline**

* Introduction of basic concepts of occupational health and terminologies commonly used
* Physical and environmental aspects of workplaces, Sanitary conditions(Heating, Lighting, Ventilation, guarding of machinery, electrical safety
* Risk assessment
* Aetiology of key occupational diseases and

conditions/occupational epidemiology

* Noise pollution and control in the workplace
* Agricultural hazards
* Transport safety
* Workplace inspections
* Principles of prevention and control of occupational diseases/conditions
* Development of positive health strategies in the workplace(Health related workplace policies: HIV/AIDS, First Aid, PPE, fire hazard, infra structural design)
* Disability assessment, mental health and work, rehabilitation, compensation
* Workman’s Compensation
* The function and role of an occupational health service;

employment standards

* Legal framework relating to the identification, control and prevention of work-related ill health
* Occupational health & Safety related legislations
* Gender mainstreaming in occupational settings
* Practical work
* Field/site visits

**Mode of delivery:**

* Lectures, tutorials, seminars, practical/field work.

**Mode of Assessment**

- Continuous assessment **(40%)**.

- End of semester exam: MCQ’s, short answer and long assay questions **(60%)**.

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**Suggested Reading List**

1. Lecture handouts and additional materials on reserve at the MUSPH Resource Centre.

2. Anton, T. J. (1989). *Occupational safety and health management* (2nd ed.). New York, NY: McGraw-Hill, Inc.

3. Blake, R. P. (1963). *Industrial safety* (3rd ed.). Englewood Cliffs, NJ: Prentice-Hall Inc.

4. Reese, C. D. (2001). *Accident/incident prevention techniques.* New York: Taylor & Francis, Inc. 5. Slote, L. (1987). *Handbook of occupational safety and health.* New York, NY: John Wiley & Sons.