

**Department of Public Health
Institute of Social & Cultural Studies
Faculty of Behavioral & Social Sciences
University of the Punjab, Lahore**

Course Outline

Programme	BS Workplace Health & Safety Promotion	Course Code	WHSP 409	Credit Hours	3
Course Title	Prevention of Communicable, non-communicable diseases and Injuries at workplace				

WHSP 409- Prevention of Communicable, non-communicable diseases and Injuries at workplace

Course Description

- The aim of the course is to develop the understanding of global burden of diseases, regional and national pattern of global burden of major diseases and their risks.
- The aim of the course is to let students understand the concept of non-communicable diseases and ways how they can be controlled in Pakistan.

Course Objectives

After studying this course, student should be able to:

1. Develop a critical understanding of the concepts and measures used in studies of global burden of diseases.
2. Understand regional and national patterns of global burden of major diseases and their risk factors.
3. Apply critical knowledge in global burden studies to disease monitoring, intervention, health promotion, and policy implications in topical areas.
4. Discuss the strategies of control of common injuries and non -communicable Diseases in Pakistan

Course Content

1. Diseases and Traditional Categories

- Non-Communicable Diseases
- Communicable Disease

2. Introduction to the Global Burden of Disease

- Historical Background for Global Health and Global Burden of Diseases
- International Disease Classification Systems

- Group I are the pre-transitional causes: communicable, maternal, perinatal and nutritional
- Group II are the non-communicable causes
- Group III are the intentional and unintentional injuries.
- IHME GBD visualization tools
- GBD basic measures:
- YLL- Years of life lost
- YLD - Years of life lost due to disability
- DALY- Disability-adjusted life years

3. Basic Models of Global Burden of Disease

- Basic Models of Global Burden of Disease
- Methods & Practices
- Major WHO-initiated studies
- The Global Burden of Disease, Injuries and Risk Factors 2020

4. Global Burden of Disease and Risk Factors

- Burden of Disease Attributable to Risk Factors
- Risk Factor Selection
- Burden of Disease Attributable to Individual Risk Factors
- Joint Effects of Multiple Risk Factors
- Burden of Disease Attributable to Multiple Risk Factors

5. Injuries: Types and Global Burden

A. Unintentional injuries

- Road traffic accidents
- Poisonings
- Falls
- Fires
- Drownings
- Other unintentional injuries

B. Intentional injuries

- Self-inflicted injuries
- Violence
- War
- Other intentional injuries

Teaching-Learning Strategies

Teaching will be a combination of class lectures, class discussions, and group work. Short videos/films will be shown on occasion.

Sessional Work

The sessional work will be a combination of written assignments, class quizzes, presentations, and class participation/attendance.

Assessments and Examination

Sessional Work: 25 marks

Midterm Exam: 35 marks

Final Exam: 40 marks

Recommended Readings

1. Hyder, A. A., Puvanachandra, P., Morrow, R. H. (2012). Measures of health and disease in populations. In Merson MH, Black, RE, Mills AJ (Eds.) Global Health. Diseases, Programs, Systems, and Policies. Third Edition. Jones & Bartlett Learning, 2012 (Chap 1).
2. World Health Organization (2001): National Burden Of Disease Studies: A Practical Guide <https://www.who.int/healthinfo/nationalburdenofdiseasemanual.pdf>
3. World Health Organization. The Global Burden of Disease concept (Chap 3).
4. Lopez, A. D., Mathers, C. D., Ezzati, M., Jamison, D. T., & Murray, C. J. L. (Eds.). (2006). Global Burden of Disease and Risk Factors. Washington, DC: Oxford University Press and World Bank, 2006 (Chap 1).
5. Keating C. (2018). The art of medicine: the genesis of the Global Burden of Disease study. *Lancet* 2018; 291:2317.
6. Solberg, C. T., Norheim, O. F., Barra, M. (2017). The disvalue of death in the global burden of disease. *J Med Ethics*: 2017:0:1-7.
7. Voigt, K., King, N. B. (2014). Disability weights in the global burden of disease 2010 study: two steps forward, one step back? *Bull World Health Organ*, 92:226-228.
8. Kasenga, F. (2016). Epidemiology of Communicable and Non-Communicable Diseases: Attributes of lifestyle and Nature of Humankind.
9. Thakur, J. S. (2015). Public Health approaches to non-communicable diseases.
10. Thakur, J.S. (2015). Non-communicable diseases.

11. Ministry of Health, Government of Pakistan, World Health Organization, Heartfile. (2004). National action plan for prevention and control of non-communicable diseases