Lecture outlines

**COURSE TITLE : EPIDEMIOLOGY**

**COURSE CODE : NURS 1113**

**DURATION : 45 Hours**

**CREDITS : 3**

**Course Leaders : P Anderson-Johnson/J Lindo (UWISON)**

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| **WKS** | **Lecture #** | **Date and time** | **Lecture** | **Lecturer** | **Tutorial** |
| 1 |  | 13/Jan - Mon | 8:30 - 10:30Introduction & Overview of Epidemiology course/ Methods of Evaluation/ Course Outline.  | PAJ | 11:00 - 12:00 (Lecture)Unit 1: Epidemiology Principles - Definition/Uses/ Epidemiology approach |
| 1 |  | 15/Jan - Wed | 1:00 - 3:00**Unit 1: Epidemiology Principles** Components, sources, health indicators, surveillance;  |  | 3:30 - 4:30Student Discussions: The steps used by John Snow to solve the cholera outbreak in 1854 (Read:- *Pgs 18-23 of Principles of Epidemiology* )  |
| 2 |  | 20/Jan - Mon | 8:30 - 10:30 **Unit 1: Epidemiology Principles** Measurements & calculations; Preparation of tables |  | 11:00 - 12:00In class test on **Screening** followed by Class Discussion (Reading:- |
| 2 |  | 22/Jan - Wed | **1:00 - 3:00****Unit 2: Infectious Disease Process**Definitions of related terms; Chain of infection; Modes of transmission; |  | 3:30 - 4:30Surveillance of an infectious disease that was discussed in class |
| 3 |  | 27/Jan - Mon | 8:30 - 10:30**Unit 2: Infectious Disease Process**Immunity; Nosocomial infections; Risk factors  |  | 11:00 - 12:00Calculations of Rates; proportions; predictive values; specificity; sensitivity;  |
| 3 |  | 29/Jan - Wed | 1:00 - 3:00**Unit 3: Diseases of Public Health significance** Notifiable Diseases; Natural history and common resistant organism of Viral diseases |  | 3:30 - 4:30Discuss Dengue and measles |
| 4 |  | 03/Feb - Mon | 8:30 - 10:30**Unit 3: Diseases of Public Health significance** Notifiable Diseases; Natural history and common resistant organism of Parasitic diseases |  | 11:00 - 12:00Discuss malaria and scabies |
| 4 |  | 05/Feb - Wed | 1:00 - 3:00**Unit 3: Diseases of Public Health significance** Notifiable Diseases; Natural history and common resistant organism of Bacterial diseases |  | 3:30 - 4:30Discuss TB and  |
| 5 |  | 10/Feb - Mon | 8:30 - 10:30**UNIT 4: Prevention and Control of Communicable diseases**General and specific measures of prevention  |  | 11:00 - 12:00TBA |
| 5 |  | 12/Feb - Wed | 1:00 - 3:00**UNIT 4: Prevention and Control of Communicable diseases**International and National laws and regulations for prevention of Com. Disease |  | 3:30 - 4:30TBA |
| 6 |  | 20/Feb - Thurs | 8:30 - 10:30**UNIT 4: Prevention and Control of Communicable diseases**Investigations of epidemics |  | 11:00 - 12:00Surveillance Activity: Students will carry out a surveillance investigation and report findings |
| 7 |  | 27/Feb- Thurs | 8:30 - 10:30**UNIT 4: Prevention and Control of Communicable diseases**Sources of data on the occurrence of communicable diseases |  | 11:00 - 12:00**In course Exam** (Date and time to be confirmed) |
| 8 |  | 06/Mar- Thurs | 8:30 - 10:30**UNIT 4: Prevention and Control of Communicable diseases**Use of data in Programme planning for disease prevention and control |  | 11:00 - 12:00 Surveillance Activity: Students will carry out a surveillance investigation and report findings |
| 9 |  | 13/Mar- Thurs | 8:30 - 10:30**UNIT 5: HIV/AIDS*** Background
* Pathophysiology
* Transmission
* Effects
* AIDS related conditions
* Sexuality concepts
* Stigma and HIV/AIDS
 |  | 11:00 - 12:00 Surveillance Activity: Students will carry out a surveillance investigation and report findings |
| 10 |  | 20/Mar- Thurs | 8:30 - 10:30**UNIT 5: HIV/AIDS*** Socio-economic burden
* Ethical & legal aspects
* Human rights & HIV/AIDS
* Advocacy
* Organizations/agencies and their response to HIV/AIDS
* HIV in the workplace
 |  | 11:00 - 12:00Calculating incidence, prevalence etc of HIV/AIDSRisk assessments |
| 11 |  | 27/Mar- Thurs | 8:30 - 10:30**UNIT 5: HIV/AIDS*** Infection prevention and control
* Clinical management - focus of care
* Levels of prevention
* Evaluation of service and care
* Management of resources
 |  | 11:00 - 12:00Revision/questions and answers |
| 12 |  | 3/April- Thurs | 8:30 - 10:30 |  | 11:00 - 12:00 |
| 13 |  | 10/April- Thurs | 8:30 - 10:30 |  | 11:00 - 12:00 |
| 14 |  | 17/April- Thurs | 8:30 - 10:30 |  | 11:00 - 12:00 |
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