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 - 10:30  Introduction & 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 - 4:30  Student 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 - 12:00  In 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 - 4:30  Surveillance 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 - 12:00  Calculations 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 - 4:30  Discuss 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 - 12:00  Discuss 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 - 4:30  Discuss 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 - 12:00  TBA |
| 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 - 4:30  TBA |
| 6 |  | 20/Feb - Thurs | 8:30 - 10:30  **UNIT 4: Prevention and Control of Communicable diseases**  Investigations of epidemics |  | 11:00 - 12:00  Surveillance 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 - 12:00  Calculating incidence, prevalence etc of HIV/AIDS  Risk 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 - 12:00  Revision/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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