LEARNING UNIT : \_\_\_\_V\_\_\_\_ Course Coordinator : \_\_\_\_\_\_Dr. Eduardo Ayuste, Jr.\_\_\_\_\_\_\_\_\_

COURSE CODE : \_OS 217\_\_\_\_\_\_\_ Module Coordinators/s: \_\_\_\_\_\_Dr. Orlino Bisquera, Jr. \_\_\_\_\_\_\_\_\_

COURSE TITLE : \_Systemic Diseases\_\_

COURSE DESCRIPTION:

The module on systemic diseases is an integrated course, covers common and locally relevant infections, malignancies, and traumatic conditions. The course places emphasis on the recognition and management of these conditions among the well, at-risk and sick population of various ages. The course initially introduces the basic principles of pathophysiology and epidemiology of the disease condition then translates these principles in the diagnosis, clinical management, and prevention. The management is aimed to assess and care for the patient in a holistic, multi-disciplinary approach that is humane, most appropriate and evidence-based ethical as well as cost-effective.

 This is a 4-week course, subdivided into – (a) Adult and pediatric infectious diseases for two weeks; (b) oncology for one week; and (c) trauma for three days.

 Learning activities were varied and dynamic. In the classroom setting, there were be straightforward lectures, plenary sessions, break-out sessions and/or small group discussions, classroom exercises as well as grand rounds with the students as main presenters. For clinical correlation and application, students were exposed to the clinics through COME-based activities, ward work and preceptorials.

Module/System : \_\_\_Oncology\_\_\_\_

Module Description : Relationship to the other parts of the course:

To know and understand the basic concepts of malignant diseases and its involvement in various systems.

To integrate knowledge of malignant disease with issues in the community particularly in early diagnosis, treatment and prevention.

LO ADDRESSED:

L1 Clinical Competence

L2 Effective Communication Skills

L3 Generation and Utilization of Relevant Knowledge

L4 Inter-professional practice

L5 Leadership

L6 Effective Teaching and Organizational Skills

L7 Advocacy for Social Equity and Social Accountability

L8 System-based Approach to Health Care Practice

L9 Lifelong Personal & Professional Development

L10 Adherence to Professional and Ethical Standards

INSTRUCTIONAL DESIGN

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| **Learning Objectives** | **LO Addressed** | **Content** | **Teaching/Learning Strategies** | **Resources** | **Evaluation** |
| 1. To discuss the nature of malignant disease by elucidating on the characteristics of a cancer cell. | 1, 2, 3, 4, 8  | BASIC ONCOLOGY* Normal Cell vs Cancer Cell
* Pathogenesis of cancer
* Somatic and germline mutations, oncogenes, tumor suppressor genes
* Cell cycle and regulatory mechanisms of cell growth
* Anaplasia, Angiogenesis, Apoptosis
* Invasion and metastasis

Cancer* Molecular biology
 | Lecture (9)SGD (16 - 2/block)Grand Rounds/Plenary Case Presentation (8) | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 2. To recognize the different causes of cancer and understand the mechanisms involved in the development of cancer (Carcinogenesis) | 1, 2, 3, 4, 8 | BASIC ONCOLOGY* Carcinogenesis and environmental carcinogens
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 3. To correlate clinical signs and symptoms with nature and extent of malignant disease | 1, 2, 3, 4, 8 | BASIC ONCOLOGY* Clinical manifestations of cancer – mass effect, paraneoplastic syndrome, early signs
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 4. To elucidate the reasons why cancer is a public health problem in the Philippines | 1, 2,3,5,7,8 | CANCER EPIDEMIOLOGY AND PUBLIC HEALTH ISSUES* Cancer statistics: morbidity & mortality figures, leading sites
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 5. To evaluate the different strategies for early diagnosis and prevention of cancer | 1,2,3,4,5,7.8 | CANCER EPIDEMIOLOGY AND PUBLIC HEALTH ISSUES* Cancer prevention: primary, secondary and tertiary prevention
* Cancer programs: gov’t institutions, NGO, community-based programs
* Multifaceted role of physician in solving the cancer problem
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 6. To describe the general approach to the diagnosis and staging of a cancer patient | 1,2,3 | CANCER STAGING | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 7. To explain the different modalities of treatment in cancer and the principles in the use of these treatment modalities: Surgery, Radiotherapy and Chemotherapy | 1,2,3,4,7,8 | CANCER TREATMENT* Principles and practice of surgical oncology
* Principles and practice of radiation oncology
* Principles and practice of medical oncology focus on chemotherapy
* Principles and practice of pediatric oncology
* Application of a multidisciplinary approach in treatment of cancer
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |
| 8. To understand the principles of palliative and terminal care in the cancer patient | 1,2,3,4,6,7,8,10 | CANCER TREATMENT* Supportive and Terminal Care Principles and philosophy
* Role of Health Care team
* Psychosocial Aspects
 | LectureSGDGrand Rounds | Wards (Pedia, Medicine, Surgery, Cancer Institute)Class 1972 Theater | ExamSGD AssessmentGrand Rounds Assessment |