

**DE LA SALLE UNIVERSITY - DASMARINAS**

**COLLEGE OF SCIENCE AND COMPUTER STUDIES**

**INFORMATION TECHNOLOGY DEPARTMENT**

**COURSE SYLLABUS**

COURSE CODE : S-ITPC 121

COURSE TITLE : FUNDAMENTALS OF DATABASE SYSTEMS

COURSE TYPE : LECTURE

COURSE CREDIT : 2 UNITS

LEARNING MODALITY : TRADITIONAL

PRE-REQUISITES : NONE

CO-REQUISITES : S-ITPC 121LA

PROFESSOR : MS. AZENITH R. MOJICA

: MONDAY AND TUESDAY 2:00-5:00

: COS 100-C

: (046) 4811900 LOCAL 3134

: ARMOJICA@DLSUD.EDU.PH

**COURSE DESCRIPTION:**

This course prepares the students to acquire the skills on creating, analyzing, and designing databases. This will help increase their understanding of the essentials of database modelling and design, the languages and facilities provided by the database management systems and system implementation techniques.

**COURSE LEARNING OUTCOMES:**

CLO1 . Understand data models, schemas, instances, and their applications in the real world

CLO2 . Design effective database schemas using Entity Relationship Diagram (ERD).

CLO3 . Convert conceptual model into relational schema.

CLO4 . Perform effective data management procedures.

CLO5 . Perform effective logical database design.

CLO6 . Demonstrate 21st century skills in all learning activities.

**LEARNING PLAN**

**Learning Outcomes for Midterm Period**

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| **Course Learning Outcomes** | **Topic Learning Outcomes** |
| CLO1.Understand data models, schemas, instances, and their applications in the real world | TLO1. Effectively explains the basic concepts of databases and data models. TLO2.Explains the features of database management systems, architecture of database systems, and the role of database users. |
| CLO2.Design effective database schemas using Entity Relationship Diagram (ERD). | TLO4. State reasons why many system developers believe that data modeling is the most important part of the systems development process TLO5. Write good names and definitions for entities, relationships, and attributes. TLO6. Draw an E-R diagram to represent common business situations. TLO7. Recognize when to use supertype/subtype relationships in data modeling. TLO8. Develop a supertype/subtype hierarchy for a realistic business situation. TLO9. Develop an entity cluster to simplify presentation of an E-R diagram. |
| CLO3.Convert conceptual model into relational schema. |  |
| CLO4.Perform effective data management procedures. |  |
| CLO5.Perform effective logical database design. |  |
| CLO6.Demonstrate 21st century skills in all learning activities. |  |

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| **Module No and Learning Outcomes** | **Week** | **Teaching-Learning Activities / Assessment Strategy** | **Technology Enabler** | **Onsite / F2F** | **Asynchronous** | **Alloted Hours** |
| Module 0 | Week 1.Feb 13-18 | • Gospel and Reflection • Presentation of the Course Syllabus • Presentation of Module 0: Course Introduction • Activity 1: Class Participation | Schoolbook PowerPoint MS Forms |  | / | 2 |
| TOTAL | | | | 0 | 1 | 2 |

**Learning Outcomes for Final Period**

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| **Course Learning Outcomes** | **Topic Learning Outcomes** |
| CLO3. Convert conceptual model into relational schema. | TLO10. List properties of relations   TLO11. Transform an E-R (or EER) diagram into a logically equivalent set of relations.   TLO12. Create relational tables that incorporate entity integrity and referenti |

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| **Module No and Learning Outcomes** | **Week** | **Teaching-Learning Activities / Assessment Strategy** | **Technology Enabler** | **Onsite / F2F** | **Asynchronous** | **Alloted Hours** |
| Module 4 CLO3 TLO10 TLO11 TLO12 | Week 12.Feb 13-18 | •    Gospel and Reflection •    Giving of Midterm Grades •    Presentation of Module 4: Relational Model •    Activity 1: Class Participation | Schoolbook PowerPoint | / |  | 2 |
| TOTAL | | | | 1 | 0 | 2 |

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| **GRADING SYSTEM** |
| Class Participation | 20% |
| Enabling Assessment | 50% |
| Summative Assessment | 30% |
| TOTAL | 100 |

**Overall Final Grade = Midterm + Final
2**

**COURSE POLICIES AND REQUIREMENTS**

1. Office365 Activation. Please ensure that your Office365 account is working. Your Office365 account is needed to access both Schoolbook and MS Teams where your asynchronous and synchronous classes will be held.

2. Enrollment in an E-Class. Please ensure that your Office365 account is working. Your Office365 account is needed to access both Schoolbook and MS Teams where your asynchronous and synchronous classes will be held.

3. Traditional Blended Learning Model. This course adopts the traditional blended learning model. This means that there will be a mix of face-to-face and asynchronous classes. Majority of teaching-learning activities and assessments are undertaken onsite. The total number of onsite classes shall be 50% of the number of hours allotted for the whole semester.

4. Online Asynchronous Sessions.