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| **VISION**  We are National University, a dynamic private institution committed to national building, recognized internationally in education and research  **MISSION**  Guided by the core values and characterized by our cultural heritage of Dynamic Filipinism, National University is committed to providing relevant, innovative and accessible quality education and other development programs.  We are committed to our:   * **STUDENTS**, by molding them into life-long learners, ethical and. Spiritual citizens and self-directed agents of change. * **FACULTY and EMPLOYEES**, by enhancing their competencies, stimulating their passions, cultivating their commitment, and providing a just and fulfilling work environment. * **ALUMNI,** by strengthening their sense of pride through engagement, loyalty and love for their alma mater. * **INDUSTRY PARTNERS and EMPLOYERS**, through active collaborations, providing them Nationalians who will contribute to their growth and development. * **COMMUNITY,** by contributing to the improvement of life conditions and well-being of its members. | **CORE VALUES**  1. Integrity 2. Compassion 3. Innovation 4. Resilience 5. Patriotism  **GRADUATE ATTRIBUTES INTENDED FOR NATIONALIANS (GAIN)**   1. Leadership and Teamwork. 2. Responsible Citizenship 3. Innovative, Creative, and Critical Thinking 4. Academic and Professional Competence 5. Effective Communication 6. Whole Person Character 7. Life and Career Skills Orientation 8. Technological Literacy   **INSTITUTIONAL LEARNING OUTCOMES (ILO)**   1. Exhibit moral, ethical, and competent leadership. 2. Collaborate effectively in teams of different cultures. 3. Participate actively in community-oriented advocacies that contribute to nation-building. 4. Develop an entrepreneurial mindset. 5. Provide solutions to challenges in various fields of specialization and society in general. 6. Demonstrate mastery of foundational skills and specific areas of specialization. 7. Express ideas meaningfully, accurately, and appropriately in multicultural and multidisciplinary contexts. 8. Practice NU Core Values in personal and professional life. 9. Engage in continuing personal and professional development. 10. Exemplify the capacity for self-reflection. 11. Demonstrate adaptability, flexibility, productivity, and accountability in diverse settings. 12. Exhibit mastery in navigating various technological tools and techniques. |

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| **Program Educational Objectives (PEO)**  After 3 to 5 years on the job, BS Information Technology graduates of NU are expected to: | **ILO** | | | | | | | | | | | |
| **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** | **K** | **L** |
| 1. Our graduates have professional careers in industry or academe or are engaged in advanced studies. |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Our graduates continue to seek knowledge to thrive in an increasingly globalized society. |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Our graduates are successful team members or team leaders. |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Our graduates conduct themselves with integrity and incorporate proper ethical considerations in development and administration of computing-based systems that contribute to nation building. |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Program Outcomes (PO)**  At the time of graduation, the student must be able to: | **PEO** | **PEO** | **PEO** | **PEO** |
| **1** | **2** | **3** | **4** |
| 1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions. | ✓ |  |  |  |
| 1. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline. | ✓ |  |  | ✓ |
| 1. Communicate effectively in a variety of professional contexts. | ✓ | ✓ | ✓ | ✓ |
| 1. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles. |  | ✓ |  | ✓ |
| 1. Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline. |  |  | ✓ |  |
| 1. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. |  | ✓ |  | ✓ |

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| **NAME OF FACULTY: JULIE ANNE A. CRYSTAL** |  |
| **CLASS SCHEDULE: MONDAY 7:00-11:00 – 12:00-2:40PM** |  |
| **CONSULTATION PERIOD: WEDNESDAY 7:00-11:00** |  |
| **COURSE CODE: CTINFMGL** |  |
| **COURSE NAME: INFORMATION MANAGEMENT** |  |
| **COURSE DESCRIPTION:** Study theoretical knowledge and practical skills in the utilization of databases and database management systems in the ICT applications |  |
| **NO. OF UNITS: 3** |  |
| **PRE-REQUISITE/S: CCDATRCL** |  |
| **COURSE CATEGORY:** | Professional Course Specialization Course Others |

**COURSE OUTCOMES:**

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| At the end of the course, the student must be able to: | **PROGRAM OUTCOMES (PO)** | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Distinguish database concepts, structures and database development processes. |  |  |  |  |  |  |
| 1. Develop a relational database integrated into a database management system |  |  |  |  |  |  |

*Legend:     I- Introduce R- Reinforce     D- Demonstrate*

**COURSE OUTLINE AND TIMEFRAME**

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| **Week No.** | **Date Coverage** | **Topic** | **Reference** |
| **1** | 11-27-2023 | Database Systems | Course Material Lecture 1 |
| **2** | 12-04-2023 | Data Models | Course Material Lecture 2 |
| **3** | 12-11-2023 | Data Models (continuation..) | Course Material Lecture 2 |
| **4** | 12-18-2023 | Relational Database Model | Course Material Lecture 3 |
| **5** | 01-08-2023 | Relational Database Model (continuation..) | Course Material Lecture 3 |
| **6** | 01-15-2023 | Entity Relationship Modelling | Course Material Lecture 4 |
| **7** | 01-22-2023 | Entity Relationship Modelling (condition….) | Couse Material Lecture 4 |
| **8** | 01-29-2023 | Advanced Data Modelling | Course Material Lecture 5 |
| **9** | 02-05-2023 | Advanced Data Modelling | Course Material Lecture 5 |
| **10** | 02-12-2023 | Normalization | Course Material Lecture 6 |
| **11** | 02-19-2023 | Introduction to Structured Query Language | Course Material Lecture 7 |
| **12** | 02-25-2023 | Structured Query Language (continuation…) | Course Material Lecture 7 |
| **13** | 03-04-2023 | Structured Query Language (continuation…) | Course Material Lecture 7 |
| **13.5** | 03-11-2023 | Project Presentation |  |

**SUGGESTED READINGS AND REFERENCES**

  [1]. Hernandez,M. (2020).

Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design 3rd Edition,

[2] Molinaro, A. (2020).

SQL Cookbook: Query Solutions and Techniques for All SQL Users 2nd Edition,

[3]. Garfield, D . (2023).

Database Management for Beginners: 3 in 1 Guide: Navigating the World of Data Storage and Organization

[4]. Elmasri R. (2022)

Fundamentals of Database Systems: 7th edition

[5] Pisano, S . (2021).

Database Fundamentals Study Guide

**COURSE REQUIREMENTS**

Assessment Task (Activity, Assignment)

Long Exam

Project: Develop and document a functional Relational Database Management System (RDMS) intended to solve real-world business problems

**GRADING SYSTEM**

**Grade Equivalent**

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| --- | --- |
| **Grade Range (%)** | **Grade Point** |
| 96 – 100 | 4.0 |
| 90 – 95 | 3.5 |
| 84 – 89 | 3.0 |
| 78 – 83 | 2.5 |
| 72 – 77 | 2.0 |
| 66 – 71 | 1.5 |
| 60 – 65 | 1.0 |
| 59 and below | R |

Assessment Tasks 40%

Long Exam 30%

Project 30%

**CLASS POLICIES**

1. Attendance is necessary for each student to obtain maximum benefits for instruction, 80% attendance or 69 hours for one trimester is required.
2. Failure to wear complete uniform will be considered an absence and the student will not be allowed to take any examination.
3. Special examination is only given for excused absences. Excuse letter duly signed by the parents/guardian or a medical examination (in case of sickness) is required.
4. Students may bring their cellular phones to class provided these are placed on silent mode. These should not be used during class hours except during extreme necessities. Cellular phones should be switched off during examinations.
5. Students should be in complete uniform and exam permit should be presented during major examinations.
6. Any form of cheating will not be tolerated.
7. Students are expected to wait for 15 minutes for a one (1) hour class and 20 minutes for a one and a half (1½) hour class before leaving if the instructor is not around. However, the class president is expected to check with any CCIT professor if a substitute professor will take over.

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| PREPARED:  JULIE ANNE A. CRYSTAL  **DEPARTMENT FACULTY** | REVIEWED:  RYAN RICHARD H. GUADANA  **PROGRAM CHAIR** | APPROVED:  EMELIZA R. YABUT  **DEAN** |