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| **College of Information Technology and Computing**  Department of Information Technology | | **SYLLABUS**  Course Title: **Computer Programming 1**  Course Code: **IT111**  Credits: **3 units (1 hours Lecture, 2 hrs Laboratory)** |
| **USTP Vision**    A nationally-recognized Science and Technology (S&T) university providing the vital link between education and the economy    **USTP Mission**     * Bring the world of work (industry) into the actual higher education and training of the students; * Offer entrepreneurs of the opportunity to maximize their business potentials through a gamut of services from product conceptualization to commercialization; * Contribute significantly to the national development goals of food security and energy sufficiency through technology solutions.     **Program Educational Objectives:**     |  | | --- | | **PEO1:** Engage in successful careers as IT professionals in various industries. | | **PEO2:** Demonstrate continuous professional development through certifications, graduate studies, or self-directed learning. | | **PEO3:** Uphold ethical, social, and environmental responsibilities in their professional practice. | | **PEO4:** Contribute to innovation, process improvement, or entrepreneurship in IT-related domains. |   **Program Outcomes:**   |  | | --- | | **a:** Apply computing knowledge and IT principles to solve real-world problems. | | **b:** Analyze complex problems and identify appropriate IT solutions. | | **c:** Design, implement, and evaluate computer-based systems or processes that meet desired needs. | | **d:** Work effectively in teams, including diverse and multidisciplinary environments. | | **e:** Understand professional, ethical, legal, and social issues and responsibilities related to IT. | | **f:** Communicate effectively with stakeholders, both technical and non-technical. | | **g:** Analyze the impact of IT on individuals, organizations, and society. | | **h:** Engage in lifelong learning to adapt to the changing landscape of IT. | | **i:** Use current tools, techniques, and practices necessary for the IT profession. | | **j:** Support IT infrastructure needs of an organization, including hardware, software, networks, and databases. | | |  |  | | --- | --- | | Semester/Year:**1st Semester SY 2026-2027**  Class Schedule: Class Sched  Bldg./Rm. No.: 41-104 | Prerequisite(s):N/A  Co-requisite(s):N/A | | Instructor: **Joshua Amper, Juan Carlos Valdevieso**  Email: amper.joshua210@gmail.com, valdeviesojuan2@gmail.com  Mobile No.: 0932873817, 09561250107 | Consultation Schedule: Consult deeznuts  Bldg.Rm. No.: 41-104  Office Phone No./Local: | | 1. **Course Description:** *Course Description* | | | 1. **Course Outcome:**  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Course Outcomes (CO)** | **Program Outcomes (PO)** | | | | | | | | | | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | | CO1: Apply fundamental programming concepts such as variables, control structures, functions, and data types to solve basic computational problems. | I | I | E | D | I | I | I | I | I | I | | CO2: Demonstrate understanding of basic programming constructs such as variables, data types, operators, control structures (if-else, loops), and functions to solve computational problems. | E | E | E | E | E | E | E | E | E | E | | CO3: Apply object-oriented programming concepts such as encapsulation, inheritance, and polymorphism to develop efficient and modular programs. | D | D | D | D | D | D | D | D | D | D | | | | 1. **Course Outline:**  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Allotted Time** | **Course**  **Outcomes (CO)** | **Intended Learning Outcomes (ILO)** | **Topic/s** | **Suggested Readings** | **Teaching-Learning Activities** | **Assessment Tasks/Tools** | **Grading Criteria** | **Remarks** | | 35hoursWeek 1 | CO1 | ILO | TOPIC | SUGGESTED READINGS | TLA | ASSESSMENT TASK |  |  | | 5hoursWEEK 2 | CO2, CO3 | ILO | TOPICS | SR | TLA | ASS |  |  | | MIDTERM EXAMINATION | | | | | | | | | | 36 hours Week 1 | CO2, CO3 | ILO | TOPICS | SR | TLA | ASS |  |  | | 4 hours WEEK 2 | CO1 | ILO | TOPICS | SR | TLA | ASS |  |  | | FINAL EXAMINATION | | | | | | | | | | | | 1. **Course Requirements:**   1. Course Readings/Materials         • Starting Out with Python, Tony Gaddis, Pearson (2019)        • Introduction to Programming Using Python, Y. Liang, Pearson (2013)        • Python: The Ultimate Beginner's Guide, Andrew Johansen (2016)        • https://docs.python.org/3/tutorial/index.html        • https://www.tutorialspoint.com/python/index.htm        • https://www.learnpython.org/        • https://github.com/python  Rubrics:   |  |  |  |  | | --- | --- | --- | --- | | Laboratory Exam | | | | | CRTIERA | | 50% | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **Prepared by:** | | Joshua Amper  Instructor | | Juan Carlos Valdevieso  Instructor | |  | | | |  | | --- | | **Recommending Approval:** | | Engr. Juan Carlos Valdevieso Jr. | | Department Chair | |  | |  | | | |  | | --- | | **Approved by:** | | Engr. Juan Carlos Valdevieso Jr. | | Dean | |  | | | |  |  | |  | | |  |  | |  | | |  |  | |  | | | |