 rakoRepublic of the Philippines

SOUTHERN LEYTE STATE UNIVERSITY

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**COURSE SYLLABUS**

IT 318 – WEB DEVELOPMENT

Second Semester, AY 2021-2022

**National Goal :** The attainment of globally competitive Filipinos through quality and excellent education, relevant and responsive to changing environment, accessible and equitable to deserving students, and efficient and effective in optimizing returns and benefits.

**Vision :** A high quality corporate science and technology university

**Mission :** SLSU will: a) Develop Science, Technology and Innovation leaders and professionals; b) Produce high-impact technologies from research and innovations; c) Contribute to sustainable development through responsive community engagement programs; d) Generate revenues to be self-sufficient and financially-viable;

**University Goals** : SLSU shall develop comprehensive curricula to produce S and T leaders and professionals; establish a culture of science and technology-based research; facilitate adoption of technology to communities and service areas; intensify production capability; establish transparent, efficient and effective management system.

**Quality Policy** : We, at Southern Leyte State University, commit enthusiastically to satisfy our stakeholders’ needs and expectation by adhering to good governance, relevance, and innovations of our instruction, research and development, extension and other support services and to continually improve the effectiveness of our Quality Management Systems in compliance to ethical standards and applicable statutory, regulatory, industry and stakeholders’ requirements.

The management commits to establish, maintain and monitor our quality management system and ensure that adequate resources are available.

**Core Values** : **S**ervice Excellence

**L**eadership Competence

**S**tewardship and Accountability

**U**nity in Diversity

**Program Outcomes**

1. ***Common to all programs in all types of schools***

The graduates have the ability to:

1. Articulate and discuss the latest developments in the specific field of practice.
2. Effectively communicate orally and in writing using both English and Filipino
3. Work effectively and independently in multi-disciplinary and multi-cultural teams.
4. Act in recognition of professional, social, and ethical responsibility.
5. Preserve and promote *“Filipino historical and cultural heritage”.*
6. ***Specific to Bachelor of Science in Information Technology***
7. Apply knowledge of computing, science, and mathematics appropriate to the discipline.
8. Understand best practices and standards and their applications.
9. Analyze complex problems, and identify and define the computing requirements appropriate to its solution.
10. Identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.
11. Design, implement and evaluate computer-based systems, processes, components, or programs to meet desired needs and requirements under various constraints.
12. Integrate IT-based solutions into the user environment effectively.
13. Apply knowledge through the use of current techniques, skills, tools and practices necessary for the IT profession.
14. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal.
15. Assist in the creation of an effective IT project plan.
16. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentations and clear instructions
17. Analyze the local and global impact of computing information technology on individuals, organizations, and society.
18. Understand professional, ethical, legal, security, and social issues and responsibilities in the utilization of information technology.
19. Recognize the need for and engage in planning self-learning and improving performance as a foundation for continuing professional development.
20. ***Institutional Outcomes***

w.) Responsible IT professional who can develop and contribute to the advancement in ICT field with global mindset.

***E. SLSU BS Information Technology graduates should be:***

1. Critical Thinking
2. Conceptual Thinking
3. Global Mindset
4. Open-Minded
5. Personal Responsibility
6. Leadership and Management Skills
7. Learning to Learn Skills
8. Problem Solving Skills
9. Research Skills

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| C0URSE NAME | Web Development |
| COURSE DESCRIPTION | This course introduces the student to PHP scripting language that is embedded in HTML that allows them to create a dynamic content website that interacts with database. It also introduces one of the widely used cross platform web servers, which helps them to create and test their programs locally. |
| NUMBER OF UNITS | 3 units |
| PREREQUISTE | Database Management 2 |

1. **Course Details**

**B. Course Outcomes and Relationship to Program Outcomes**

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| **COURSE OUTCOMES** | **Program Outcomes** | | | | | | | | | | | | | |
| At the end of this course, the students must have: | f | g | h | i | j | k | l | m | n | o | p | q | r |
| ***Knowledge(Think)*** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO1. Analyze PHP Language to communicate connections to MySQL database |  | E | E | D |  |  | E |  |  |  |  |  |  |
| ***Skills(Do)*** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO2. Build a dynamic website using PHP and MySQL |  | E | E |  |  |  | D |  |  |  |  |  |  |
| ***Values (Feel)*** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO3. Justify best practices and approaches when using PHP Scripting Language |  |  |  |  |  |  | D |  |  |  |  | E | E |

**C. Lecture Learning Plan**

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| **Graduate Attribute and CDIO Skills** | **Intended Learning Outcomes** | **Topics** | **Allotted Time in Hours** | **Teaching & Learning Activities** | **Assessment Tasks** | **Instructional Materials** |
| Critical Thinking  Conceptual Thinking | ILO 0 - At the end of the orientation, the students must have:   1. Explained and interpret the national and regional goal, University vision and mission, Campus objectives, program objectives, and relate the overall course outline, grading system and requirements. | **Orientation**   1. National Goal 2. SLSU Vision, Mission, Goals, Objectives and Quality Policy 3. Program Objectives 4. Program Outcomes 5. Course Outcomes 6. Course Outline 7. Course Grading System 8. Course Requirements 9. Gender Awareness and Development (GAD) 10. Student/s with Special Needs 11. Academic Integrity 12. Disaster and Risk Preparedness | 30 mins. | Lecture  Online, Mobile & Blended Learning  Team-based Learning | **Performance-Based Assessment**  The students should understand and inculcate the SLSU VMGO, its policy and core values | Course Syllabus  (IT 316)  Student Handbook |
| ILO1 - Identify PHP syntax and semantics | * Introduction to PHP * PHP Syntax * PHP Variables | 3 hrs. | Online, Mobile and Blended Learning | * Quiz | 1,2,3,16 |
| ILO2 - Apply PHP scripts to achieve desired outputs | * Operators * Conditional statements * Loops | 5 hrs. | Online, Mobile and Blended Learning | * Practical Exercises | 4,16 |
| ILO3 - Demonstrate connection to MYSQL database | * XAMMP server * MySQL Connect * MySQL Create DB * MySQL Select Data | 5 hrs. | Online, Mobile and Blended Learning | * Practical Exercises * Assignments | 5,6,7,8,9,16 |
| C01 - Analyze PHP Language to communicate connections to MySQL database | (Topics are covered from ILO1, ILO2 and ILO3) | 5 hrs. | Online, Mobile and Blended Learning | Performance Based Assessment (Partial MySQL Connection)  *Grading is based upon***:** SL-QF-IN28: Rubrics for projects/outputs |  |
| ILO4 - Understand Bootstrap Grid System Webpage Layout | * Bootstrap Framework Install * What is Bootstrap grid * Grid options * Grid Structure | 4 hrs. | Online, Mobile and Blended Learning | * Quiz | 10,11,17 |
| ILO5 - Adapt php form handling and security | * PHP form handling * PHP form validate * PHP form complete | 4 hrs. | Online, Mobile and Blended Learning | * Practical Exercises * Assignments | 12,13,14,16 |
| ILO6 - Demonstrate CRUD using php and MySQL | * ILO3, ILO4 and ILO5 Topics * MySQL insert * MySQL update * MySQL delete | 6 hrs. | Online, Mobile and Blended Learning | * Practical Exercises * Assignments | 15,16 |
| C02 - Build a dynamic website using PHP and MySQL | (Topics are covered from the ILOs) | 4 hrs. | Consultations | Performance based assessment  (Partially built)  *Grading is based upon***:** SL-QF-IN28 : Rubrics for projects/outputs |  |
|  |  | **Total** | 36 hrs. |  |  |  |

**D. Laboratory Learning Plan**

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| **Graduate Attribute and CDIO Skills** | **Intended Learning Outcomes** | **Topics** | **Allotted Time in Hours** | **Teaching & Learning Activities** | **Assessment Tasks** | **Instructional Materials** |
| Critical Thinking  Conceptual Thinking | ILO2 - Apply PHP scripts to achieve desired outputs | * Operators * Conditional statements * Loops | 10hrs. | Online, Mobile and Blended Learning | * Practical Exercises | 4,16 |
| ILO3 - Demonstrate connection to MYSQL database | * XAMMP server * MySQL Connect * MySQL Create DB * MySQL Select Data | 10 hrs. | Online, Mobile and Blended Learning | * Practical Exercises * Assignments | 5,6,7,8,9,16 |
| ILO6 - Demonstrate CRUD using php and MySQL | * ILO3, ILO4 and ILO5 Topics * MySQL insert * MySQL update * MySQL delete | 12 hrs. | Online, Mobile and Blended Learning | * Practical Exercises * Assignments | 15,16 |
| C02 - Build a dynamic website using PHP and MySQL | (Topics are covered from the ILOs) | 5 hrs. | Consultations | Performance based assessment (Continuation)  *Grading is based upon***:** SL-QF-IN28 : Rubrics for projects/outputs |  |
| ILO7 - Use other resources to improve approaches in php | * php community * forums | 5 hrs. | Online, Mobile and Blended Learning | Essay  *Grading is based upon***:** Attached rubrics for Essay | 1,2,3,4 |
| ILO8 - Discuss the reason of their chosen practice or approach | (Topics are covered from the ILOs) |  | Online, Mobile and Blended Learning | Essay  *Grading is based upon***:** Attached rubrics for Essay | 5,6,7,8,9,15 |
| C02 - Build a dynamic website using PHP and MySQL | (Topics are covered from the ILOs) | 12 hrs. | Consultations | Performance based assessment (Fully built)  *Grading is based upon***:** SL-QF-IN28 : Rubrics for projects/outputs |  |
|  |  | **Total** | 54 hrs. |  |  |  |

* + 1. **References**

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1. *PHP Complete Form Example*. (n.d.). Www.w3schools.com. From https://www.w3schools.com/php/php\_form\_complete.asp
2. *PHP MySQL Create Table*. (n.d.). Www.w3schools.com. <https://www.w3schools.com/php/php_mysql_create_table.asp>
3. PHP and MySQL Essentials by Jemma Development Group
4. HTML CSS and XHTML by Jemma Development Group
5. Student Hand Book

**F. Grading System**

*A. Lecture & Laboratory*

Learning Tasks 60%

Performance Based Tasks 40%

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Total 100%

**G. Rubrics**

* SL-QF-IN28 : Rubrics for projects/outputs
* Rubrics for essay

**H. Provisions for Flexibility:**

* Students with special needs shall be dealt with appropriately depending on the course activities /requirement
* Gender sensitivity shall be observed in the conduct of classes and activities.
* Flexible learning is adopted in this course.

Prepared by: Recommending Approval: Approved:

**JOHN REY C. CABASISI JAMES BRIAN FLORES, Ph.D ALEX C. BACALLA, DIT**

Instructor Head, IT Department Dean, CCSIT

**CONFIRMATION AND ACKNOWLEDGEMENT**

This is to confirm that the contents of the course syllabus in **IT 318 – WEB DEVELOPMENT,** Second Semester, 2021-2022 at SLSU, were discussed to us during the first day of class and a copy of which was provided for reproduction and individual reference and guide.

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