Republic of the Philippines

SOUTHERN LEYTE STATE UNIVERSITY

Main Campus, Sogod, Southern Leyte

Website: [www.slsuonline.edu.ph](http://www.slsuonline.edu.ph)

Email: [slsumaincampus@gmail.com/](mailto:slsumaincampus@gmail.com/)

[op@slsuonline.edu.ph](mailto:op@slsuonline.edu.ph)

Telefax: (053) 382-3294

**COURSE SYLLABUS**

IT318 – Web Development

Second Semester, AY 2020-2021

**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 university of Science, Technology and Innovation.

**Mission :** SLSU will 1) Develop Science, Technology and Innovation leaders and professionals; 2) Produce high-impact technologies from research and innovations; 3) Contribute to sustainable development through responsive community engagement programs; and 4) Generate revenues to be self-sufficient and financially-viable

**University Goals** : The eight (8) development goals are in alignment with the mandated services of the university (Instruction, Research, Extension, Production) and contribute to the attainment of the higher education sub-sector goals, to wit: the formation of high-level human resource, and generation, adaptation, and transfer of knowledge and technology for national development and global competitiveness.

* Upgrade the quality of instruction with emphasis on Science, Technology and Innovations
* Provide responsive and pro-active Student Programs and Quality Services for optimum student welfare and development
* Intensify human capability development for research and innovation
* Imbibe research attitude in the university
* Develop and sustain a culture of research and innovation
* Implement responsive extension programs/projects/activities for sustainable development
* Generate sustainable revenue streams to implement SLSU Development Plans and programs
* Enhance the transparency, efficiency and effectiveness of the 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 analyse 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.

***D. 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

|  |  |
| --- | --- |
| C0URSE NAME | Web Development |
| COURSE DESCRIPTION | Throughout the course, students are introduced to planning and designing effective web pages using laravel framework; enhancing web pages with the use of blade templating; integrating bootstrap, jquery and other libraries for more effective web page design and produce a functional, multi-page website; able to setup a web server in order to support server side processing |
| NUMBER OF UNITS | 3 units (2 hour lecture/3 hours lab) |
| PREREQUISTE | Database Management 2 |

1. **Course Details**

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **COURSE OUTCOMES** | **PROGRAM OUTCOMES** | | | | | | | | | | | | |
| At the end of this course, the students must have: | g | h | i | j | k | l | m | n | o | p | q | r | w |
| 1. Design a web applications using Laravel framework |  |  |  | I | I | I |  |  |  |  |  | I |  |
| 1. Build a multi-web page application using Laravel framework |  |  |  |  | D |  | D |  |  |  |  |  | D |
| 1. Support common Laravel tools when creating web applications | E |  |  |  |  |  | E |  |  |  |  |  |  |

**C. Lecture Learning Plan**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Graduate Attribute and CDIO Skills** | **Intended Learning Outcomes** | **Topics** | **Allotted Time in Hours** | **Teaching & Learning Activities** | **Assessment Tasks** | **Instructional Materials** |
| **Thinking Skills**  Global Mindset | 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 | 1hr | Lecture  Online, Mobile & Blended Learning  Team-based Learning | **PBA**   * Reflection Paper | 17 |
| Conceptual Thinking | ILO1. Identify the requirements when working with the Laravel framework | * Introduction to Laravel Framework * System requirement * Laravel Installation * Running fresh installed Laravel framework | 4hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Practical Exercises * Assignment | 4,2,6,7 |
| Critical Thinking | ILO2. Organize system requirements and examine the different tools that can be used when working with Laravel | * Different tools in a Laravel framework | 3hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Practical Exercises * Assignment | 4,2,6,7 |
| Conceptual and Critical Thinking | ILO3. Show implementation of the basic functionalities of Laravel | * Understanding Laravel   + Routing   + Blade Templating   + Controller   + Model   + Migration | 13hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Practical Exercises * Assignment | 4,2,6,7 |
|  |  | **Mid-Term Output** | 1hr. | Project Based outputs |  |  |
| Critical Thinking | ILO5. Acknowledge the importance of the common Laravel tools | * Topics included in ILO2 * The essence of Laravel Tools and Features * Understanding and performing TDD * Using git repositories and git commands. | 13hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Practical Exercises * Assignment | 4,2,6,7 |
| Learning to learn skills | ILO6. Behave according to the standards set by the Laravel community | * Topics included in ILO4 | * Self-paced learning module * Online and mobile learning (Moodle) | * Practical Exercises * Assignment | 4,2,6,7 |
|  |  | **Final Term Output** | 1hr. | Project Based Outputs |  |  |
|  |  | **Total** | 36hrs. |  |  |  |

**D. Laboratory Learning Plan**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Graduate Attribute +and CDIO Skills** | **Intended Learning Outcomes** | **Topics** | **Allotted Time in Hours** | **Teaching & Learning Activities** | **Assessment Tasks** | **Instructional Materials** |
| Conceptual Thinking | ILO1. Identify the requirements for fresh installation of Laravel. | * Laravel Installation * Running fresh installed Laravel framework | 3hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Simulation * PAPET | 4,2,6,7 |
| Critical Thinking and  Problem Solving Skills | ILO3. Show implementation of the basic functionalities of Laravel | * Laravel   + Routing   + Blade Templating   + Controller   + Model   + Migration | 24hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Simulation * PAPET | 4,2,6,7 |
| Conceptual Thinking | ILO4. Make a three paged web application using Laravel | * Other topics included in ILO3 * Building CRUD application using Laravel framework | * Self-paced learning module * Online and mobile learning (Moodle) | * Simulation * PAPET | 4,2,6,7 |
|  |  | **Mid-Term Output** | 1.5hrs. | Project Based Outputs |  |  |
| Critical Thinking | ILO5. Acknowledge the importance of the common Laravel tools | * Understanding and performing TDD * Using git repositories and git commands. | 24hrs. | * Self-paced learning module * Online and mobile learning (Moodle) | * Simulation * PAPET | 4,6,7 |
|  |  | **Final Term Output** | 1.5hrs. | Project Based Outputs |  |  |
|  |  | **Total** | 54hrs. |  |  |  |

**E. References:**

* 1. Armel, J. (2014). Web application development with Laravel PHP Framework version 4.
  2. Bean, M. (2015). Laravel 5 essentials. Packt Publishing Ltd.
  3. R. Y. (2015, January). Design and implementation of web based on Laravel framework. In 2014 International Conference on Computer Science and Electronic Technology(ICCSET 2014) (pp. 301-304). Atlantis Press.
  4. Laravel - The PHP Framework For Web Artisans. (n.d.). Laravel. Retrieved March 25, 2021, from <https://laravel.com/docs/8.x>
  5. Laravel eBook. (n.d.). Laravel EBook. Retrieved March 25, 2021, from <https://riptutorial.com/ebook/laravel>
  6. Laravel Tutorial - Tutorialspoint. (n.d.). TutorialPoint. Retrieved March 25, 2021, from <https://www.tutorialspoint.com/laravel/index.htm>
  7. Learning Laravel: The Easiest Way. (n.d.). Academia. Retrieved March 25, 2021, from <https://www.academia.edu/5885305/Learning_Laravel_The_Easiest_Way>
  8. Roa, C. (n.d.). Laravel-. Academia. Retrieved March 25, 2021, from <https://www.academia.edu/27050683/Laravel_>
  9. Stauffer, M. (2019). Laravel: Up & Running: A Framework for Building Modern PHP Apps. O'Reilly Media.
  10. McCool, S. (2012). *Laravel Starter*. Packt Publishing Ltd.
  11. Rees, D. (2012). Laravel: Code Bright.
  12. Enterprise, J. (2016). *Getting to know PHP using the Laravel framework* . Elex Media Komputindo.
  13. Yudhanto, Y., & Prasetyo, HA (2019). *Easy to master laravel framework* . Elex Media Komputindo.
  14. Pecoraro, C. J. (2015). *Mastering Laravel*. Packt Publishing Ltd.
  15. Robbins, J. N. (2012). *Learning web design: A beginner's guide to HTML, CSS, JavaScript, and web graphics*. " O'Reilly Media, Inc.".
  16. Duckett, J. (2014). *Web design with HTML, CSS, JavaScript and jQuery set* (Vol. 1). IN: Wiley.
  17. Student Hand Book

**F. Grading System**

1. Learning Task - 60%
2. Output - 40%

**Total** **100%**

**G. Rubrics for the Performance Based Task/Assessments/Output**

1. SLSU-QF-1N30 - Rubric in Projects Outputs
2. SLSU-QF-1N28 - Rubric in Rating Oral Examination

**H. Rubrics for the Reflection Paper/Essay**

1. Cleanliness - 20pts

2. Grammar - 20pts

3. Content Deliverable - 10pts

**Total** - **50pts**

**I. Provisions for Flexibility:**

* Students with special needs shall be dealt with appropriately depending on the course activities /requirements.
* The syllabus is updated, the new topics included in this updated syllabus are the following; Professions and Careers in the Different Computing Field, Evolution of Computing & Number System Representation, Computer Security & Networks, Web Development and Computer Systems.
* Gender sensitivity shall be observed in the conduct of classes and activities.
* Flexible learning is adopted in this course.

Prepared by: Recommending Approval: Approved:

**BENIGNO E. AMBUS JR. 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 & IT 318L – System Integration & Architecture I,** Second Semester, 2020-2021 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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of Student | Course & Year | Signature | Name of Student | Course & Year | Signature |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |