LIS 164 Course Syllabus

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SCHOOL OF LIBRARY AND INFORMATION STUDIES
UNIVERSITY OF THE PHILIPPINES

Course Syllabus	**LIS 164**	Faculty:	**Sonia M. Pascua**
Course Number:			
Course Title:	**Telecommunications and Networks for Library and Information Science**	Consultation Hours:	**11:30AM - 1:00PM** **Daily** **Email consultation is encouraged.** **SLIS Faculty Room**
Course Credit:	**3 Units**	Phone Number:	**981-8500 loc. 2869**
Class Schedule:	**1:00 PM - 4:00 PM Thursday**	Mobile Number:	**09178713126**
Class Venue:	**ILS IT APP**	Email:	**sonia@slis.upd.edu.ph**

Course Description

Use of telecommunications and networks for information access and dissemination for library and information centers.

Course Outline and Objectives

Date	Activity	Objectives	Modes of Assessment

Thursday, January 19, 2017	Start of Classes; Course Introduction		Introduction to the Course - LIS 164 Discuss the course objectives, outline of requirements and the access to UVLE:LIS164 WWX2- the Learning Management System to be used in class Learn the History of Internet (Video Presentation)	Group representation of the history of the internet
Thursday, January 26, 2017		Basic Networking Fundamentals	Explain common logical network topologies and their characteristics	Individual perception of Internet (RP1)
Thursday, February 02, 2017	Group 1	Network Media	Categorize standard cable types and their properties Identify common connector types Given a scenario, differentiate and implement appropriate wiring standards Categorize LAN technology types and properties Install components of wiring distribution	Quiz 1 Workshop #1 Crimping (UP SLIS)
		Network Topologies	Identify common physical network topologies Categorize WAN technology types and properties Explain common logical network topologies and their characteristics	
Thursday, February 09, 2017	Group 2	OSI Model	Explain the function of each layer of the OSI model	Quiz 2

		TCP/IP	Explain the function of common networking protocols Identify the following address formats Given a scenario, evaluate the proper use of the following addressing technologies and addressing schemes	
Thursday, February 16, 2017	Group 3	TCP/IP Protocols	Explain the function of common networking protocols Identify commonly used TCP and UDP default ports	Quiz 3
		Network Devices	Install, configure and differentiate between common network devices Identify the functions of specialized network devices Explain the advanced features of a switch	
Thursday, February 23, 2017	Group 4	Routing	Identify common IPv4 and IPv6 routing protocols Explain the purpose and properties of routing	Quiz 4 Workshop #2 (UP ITDC)
		Wireless Networking	Compare the characteristics of wireless communication standards Implement a basic wireless network	
Thursday, March 02, 2017	Group 5	Networking Command Line Tools	Given a scenario, select the appropriate command line interface tool and interpret the output to verify functionality	Quiz 5 Workshop #3 (IP Addressing) UP SLIS

		Network Performance Optimization	Explain different methods and rationales for network performance optimization	
Thursday, March 09, 2017		Network Tools	Given a scenario, utilize the appropriate hardware tools	Quiz 6
		Network Monitoring	Conduct network monitoring to identify performance and connectivity issues using the following Explain the purpose of network scanners	
Thursday, March 16, 2017		Documentation	Identify types of configuration management documentation Given a scenario, evaluate the network based on configuration management documentation	Quiz 7 Workshop #4 (Creating a Small Lab Topology) UP SLIS
Thursday, March 23, 2017	Group 7	Troubleshooting	Given a scenario, implement the following network troubleshooting methodology Given a scenario, troubleshoot common connectivity issues and select an appropriate solution	Quiz 8

Thursday, March 30, 2017		Network Security	Explain the function of hardware and software security devices Explain common features of a firewall Explain the methods of network access security Explain methods of user authentication Explain issues that affect device security Identify common security threats and mitigation techniques	Quiz 9
Thursday, April 06, 2017	Project Workshop Deadline for Dropping (April 7) Mid-Sem (April 10)	Project Initiation and Planning	Develop an understanding and apply through implementation the applications of telecommunications and computer networks in the library and / or information centres settings.	Project Workshop
Thursday, April 13, 2017		Project Design		
Thursday, April 20, 2017		Project Implementation		
Thursday, April 27, 2017		Testing and UAT		
Thursday, May 04, 2017	Project Submission	Project Presentation		Project Submission
Thursday, May 11, 2017				
Monday, May 15, 2017	End of Classes			
Wednesday, May 17, 2017	Start of Finals	Final Exam		
Wednesday, May 24, 2017	End of Finals			

General Policies

1. More than six absences will merit a grade of DRP / 5.0.
2. Coming to class late for more than 18 times will merit a grade of DRP / 5.0.
3. Quizzes, exercises and projects must be submitted on the specified date.
4. Late submission will not be accepted.
5. Reporters must report on the day they are assigned to deliver the report.

Course Requirements

Attendance	5%
Class Participation / Reports /Reaction Papers	20%
Exercises	20%
Projects	45%
Final Exam	10%
Total	100%

Bases of Grading

Grades will be based on the evidences presented to prove student's learning .

Grade Point Equivalence	Equivalence
1	at least 92.00%
1.25	88.00% to less than 92.00%

1.5	84.00% to less than 88.00%
1.75	80.00% to less than 84.00%
2	76.00% to less than 80.00%
2.25	72.00% to less than 76.00%
2.5	68.00% to less than 72.00%
2.75	64.00% to less than 68.00%
3	60.00% to less than 64.00%
4	58% to less than 60% (Conditional Passing by Removal or Retake)
5	less than 60% for Pass-or-Fail Courses (FAILED)
INC	Unsatisfied Requirements (Incomplete)
DRP	Course Dropped

Helpful Reading Resources:

- Barrie Sosinsky, J. M. (2009). *Networking bible. Indianapolis*, IN: Wiley Pub., inc.
- Comer, D. (2009). *Computer networks and internets*. Upper Saddle River, N.J. : Pearson/Prentice Hall.
- Ying-D., Hwang, R., Baker. F. (2012). *Computer networks : an open source approach*. New York, NY : McGraw-Hill
- Olifer, N. (2006). *Computer networks : principles, technologies, and protocols for network design*. Chichester, England : Wiley
- Peterson, L. (2007). *Computer networks : a systems approach*. Amsterdam : Morgan Kaufmann
- Shelly, G. B., & Vermaat, M. E. (2010). *Discovering Computers 2011: Complete*. Boston, Mass.: Thomson Course Technology.

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