Tsuyama College		Year	2020			urse tle	Communications Protocol	
Course Informat	ion							
Course Code	0140			Course Category	Sp	Specialized / Elective		
Class Format	Lecture			Credits	Ad	Academic Credit: 2		
Department	Department of Integrated Science and Technology Electrical and Electronic Systems Program		Student Grade	5t	5th			
Term	Year-round			Classes per Week	< 1	1		
Textbook and/or Teaching Materials	Textbook: 丼	上直也他「マン 「詳解TCP/IP	スタリングTCP/IP- 〈Vol.1〉プロトコル	- -入門編ー(第6版) レ」(Pearson educa	」(Ohn ation)	msha),	Reference book: W.リチャード ス	
Instructor	SORI Hitoshi,OKADA Tadashi							
Course Objective	es							
Learning purposes:	cal communica	ations protoco	ols used in the real	world by reading	rigorou	ıs techr	nical documents from the textbook	

and understanding the systemic behaviors of the protocols.

- To be able to imagine the systemic behavior belonging to the typical communications protocols.
 To gain experience understanding rigorous technical writings.

Rubric

	Excellent	Good	Acceptable	Not acceptable	
Achievement 1	the student can imagine the systemic behavior of	the systemic behavior of a sufficient number of	The student can imagine the systemic behavior of a minimum number of the protocols.	The student cannot imagine the systemic behavior of a minimum number of the protocols.	
Achievement 2	The student understands most textbook content.	a sufficient amount of the		The student does not understand even a minimum amount of the textbook content.	

Assigned Departn	nent Objectives
Teaching Method	
Outline	General or Specialized: Specialized Field of learning: Information systems, Programming, and Networks Required, Elective, etc.: Elective must complete subjects on network programming course. Foundational academic disciplines: Informatics / Information science, Information engineering, and related fields Relationship with Educational Objectives: This class is equivalent to "(3) acquire deep foundation knowledge of the major subject area". Relationship with JABEE programs: the main goal of learning /education in this class is "(A)." Course outline: Learn about the typical communications protocols in the real world by reading rigorous technical writing in the textbook and understanding these systemic behaviors of the protocols.
	Course method: In this class, students' comprehension is evaluated by the quality of their presentations and ability to answer questions.
Style	Grade evaluation method: Exam(60%) + presentation (20%) + reports(20%) Exams is conducted 4times and it is equally evaluated. Exam precautions are the following:

* No student materials allowed, * Re-exams will be conducted if necessary. Precautions on the enrollment:

This class is "Required outside of teaching hours course study." Therefore, this course consists of 15 unit-hours of teaching and fifteen unit-hours of homework per one-unit. The student should deal with the homework based on guidance of the teacher.

Course advice: In recent years, students seem to have less literacy regarding technical documents. However, this ability is essential to keeping a job in the ever-changing business world after graduation. The documents on communications protocols are a fit subject to exercise this ability.

Notice

Foundational subjects: Basic Information Networks (2nd year), Advanced Information Networks (4th), Communication Engineering (4th)
Related subjects: Information System Analysis (5th year)

Attendance advice: If you are late up half of one period, you are treated as late for the class. If you are more than half of one period late, you will be treated as absent.

Liaison faculty: Hitoshi SORI, Communication and Information System Program

Course Plan

			Theme	Goals
	1st Quarter	1st	Guidance	The student can explain the educational objectives
1st Semeste r		2nd	Foundational knowledge of the network, 1st week [Background of the computer network emergence / 7 levels for the development of computer and network]	The student can explain the background of computer network emergence and the protocol.

	1								
		3rd	Foundational knowledge of the network, 2nd week [Layering of protocols, Communication method, Elements of the network / Who protocol define?]			The student can explain the layering of protocols, communication method, and the elements of the network.			
		4th	Foundational know background and h standardization / Internet]	istory of ICP/IP	/ TCP/IP	IP I he student can explain the background and			
		5th				The student ca and communic		nierarchical model of TCP/IP.	
		6th	Data link layer, 1s technologies on th wireless communi	ne data link laver	· / About	The student ca of the data link communication	k layer, and wir	role and technologies reless	
		7th	other data link protocols] p			The student can explain the PPP and other protocols on the data link layer.			
		8th	(1st-semester mid	d-term exam)					
		9th	Return and comm	commentary of exam answers. Confirm the comprehension from the the mid-term exam.				rom the beginning to	
		10th	IP protocol, 1st week [About the protocol on Internet layer / IP address and routing control / Foundational knowledge of IP]			The student ca address, and r	n explain the fouting control.	oundation of IP, IP	
		11th	IP protocol, 2nd week [About the partitioning/reconfiguring of IP / About the header of IPv4 and IPv6]			The student ca partitioning/re	nn explain the configuring of I	IP and IPv4/IPv6.	
	2nd Quarter	12th	Technologies relat / About ARP]	ted to IP, 1st we	ek [Abount DNS	The student can explain DNS and ARP protocol related to IP.			
		13th	Technologies related to IP, 2nd week [About ICMP / About DHCP]			The student can explain ICMP and DHCP protocol related to IP.			
		14th	TCP and UDP [The role of the transport layer / TCP and UDP]			The student can explain the role and difference of TCP and UDP.			
		15th	(1st-semester final exam)						
		16th	Return and comm	entary of exam a	answers	Confirm the co	mprehension o	of this class.	
		1st							
		2nd							
		3rd							
	3rd	4th							
	Quarter	5th							
		6th							
		7th							
2nd		8th							
Semeste		9th							
		10th							
		11th							
	4th	12th							
	Quarter	13th							
		14th							
		15th							
		16th							
Evaluati	ion Mot		Weight (%)						
<u> </u>		kamination	Presentation	Mutual Evaluations between	Behavior	Portfolio	Other	Total	
College 1			20	students		20		100	
Subtotal 60 Basic Proficiency Specialized 60		J	0	0	0	0	0	0	
)	20	0	0	20	0	100	
Specialize Proficienc	v lo								