

Tsuyama College		Year	2020		Course Title	Communication and Information Systems	
Course Information							
Course Code		0166		Course Category		Specialized / Compulsory	
Class Format		Lecture		Credits		Academic Credit: 2	
Department		Department of Integrated Science and Technology Advanced Science Program		Student Grade		5th	
Term		Second Semester		Classes per Week		2	
Textbook and/or Teaching Materials		Information Security Reader					
Instructor		TERAMOTO Takayuki					
Course Objectives							
Learning purposes : Information security is focus, including technical mechanisms. In addition, specific methods of attack and defense, with examples, are addressed.							
Course Objectives : 1. To be able to explain the basics of information security and its importance. 2. To explain the basic knowledge necessary for security measures for individuals. 3. To be able to explain the basic knowledge necessary for security measures as a member of an organization. 4. Explain information security technologies and related laws and systems.							
Rubric							
	Excellent		Good		Acceptable		Not acceptable
Achievement 1	Explain the basics of information security and its importance in concrete terms.		Explain the basics of information security and the concept of its importance.		Can provide examples of the basics of information security and its importance.		Does not meet the requirements.
Achievement 2	Be able to comprehensively explain the basics of security measures needed as an individual.		Explain the basic knowledge concepts required for security measures as an individual.		Be able to give examples of the basic knowledge required for security measures as an individual.		Does not meet the requirements.
Achievement 3	Be able to explain in detail the fundamentals required for security measures as a member of an organization.		Explain the basic knowledge concepts required for security measures as a member of an organization.		Be able to give examples of the basic knowledge required for security measures as a member of an organization.		Does not meet the requirements.
Achievement 4	Be able to explain the technology and related laws and systems related to information security in detail.		Explain many concepts of information-security technologies and related laws and institutions.		Be able to give examples of information security technologies and related laws and institutions.		Does not meet the requirements.
Assigned Department Objectives							
Teaching Method							
Outline	General or Specialized : Specialized Field of learning : Information Systems, Programming and Networking Required, Elective, etc. :Required subjects Foundational academic disciplines : : Information science, computer engineering, and related fields / Information security-related 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 goals of learning / education in this class are "(A) ..., A-2: ...". Course outline : In the first semester, students learn about general information security. In the second semester, students learn about specific methods of attack, defense methods, and related laws.						
Style	Course method : The class will be taught mainly on the board, using a textbook. Related technologies are also explained in addition to the textbook, if necessary. Exercises will be given to deepen students' understanding. Grade evaluation method : The results of the two regular exams will be weighted (60%, Latter Middle: Latter End = 1:1). Students are not allowed to bring their own notes for each examination. Students who score less than 60 points on examinations can improve marks if their understanding is confirmed through make-up exams and retests. However, change will not exceed 60 points. Evaluation is based on exercises and reports (40%).						
Notice	Precautions on the enrollment : Students must take this class (no more than one-fifth of the required number of class hours missed) and earn the credit in order to complete the 4th year course. Course advice : Be sure to understand meanings and definitions of terms in the textbook. Solve the examples and exercises at the end of each chapter to make sure that you understand concepts. Foundational subjects : Fundamentals of Integrated Science and Technology(1st year), Information Literacy(1st year) , etc. Related subjects : Graduation Thesis(5th year), etc. Attendance advice : In addition to the basic knowledge, students are expected to learn about communication devices and wireless devices used in modern society. Tardiness will be dealt with in one-quarter (=0.5) of the class time.						
Course Plan							
			Theme			Goals	
2nd Semester	3rd Quarter	1st	Guidance			Understand the overview of the lecture.	
		2nd	Cases of Damage in Information Security			Investigate and understand cases of damage in information security.	
		3rd	Information Security Crisis Recognition and Countermeasures			Research and understand how to recognize and address crises related to information security.	
		4th	External and Internal Risk Factors			Investigate and understand external and internal risk factors	

		5th	Malware	Research and understand malware
		6th	Common Measures for Information Security	Research and understand common measures for information security
		7th	Response to Targeted and Guided Attacks Threats to Smartphones and Wireless LANs	Investigate and understand the threats to smartphones and wireless LANs and how to respond to targeted and guided attacks.
		8th	midterm examination	midterm examination
	4th Quarter	9th	Midterm exam returns and answer explanations	Understand the return of the midterm exam and answer explanations.
		10th	Organizational security measures	Research and understand your organization's security measures.
		11th	Security Technology (1) Account, ID and password	Research and understand your accounts, IDs and passwords.
		12th	Security Technology (2) Firewall Encryption and Digital Signatures	Investigate and understand firewalls, encryption and digital signatures.
		13th	Information Security Laws	Research and understand the laws related to information security.
		14th	Information security related systems and systems that do not specialize in information	Research and understand information security related systems and information security of non-specialized systems.
		15th	final exams	final exams
		16th	Return of the late final exam and explanation of the answers	Understand the questions and answers to the late final exam.

Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	60	0	0	0	40	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	60	0	0	0	40	0	100
Cross Area Proficiency	0	0	0	0	0	0	0