

Tsuyama College		Year	2021	Course Title	Information System Development
Course Information					
Course Code	0051		Course Category	Specialized / Compulsory	
Class Format	Lecture		Credits	School Credit: 1	
Department	Department of Integrated Science and Technology Communication and Informations System Program		Student Grade	3rd	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials	Textbook: 鶴保証城・駒谷昇一「ずっと受けたかった ソフトウェアエンジニアの授業① 増補改訂版」(翔泳社)				
Instructor	SORI Hitoshi, MATSUSHIMA Yukiko, FANG Guanshen				
Course Objectives					
Learning purposes : As the basis of Software Engineering, in this lecture students learn the construct of information systems. It contains develop process, develop methods, system analysis and design, project management.					
Course Objectives : 1. Students understand and can present the flow of construction of information system. 2. Students understand and can present develop process, develop methods, system analysis and design.					
Rubric					
	Excellent	Good	Acceptable	Not acceptable	
Achievement 1	Students understand and can present the flow of construction of information system in detail.	Students understand and can present the flow of construction of information system.	Students understand and can present the basis of the flow of information system construction.	Students do not understand and can not present the flow of information system construction.	
Achievement 2	Students understand and can present develop process, develop methods, system analysis and design in detail.	Students understand and can present develop process, develop methods, system analysis and design.	Students understand and can present the basis of develop process, develop methods, system analysis and design.	Students do not understand and can not present the develop process, develop methods, system analysis and design.	
Assigned Department Objectives					
Teaching Method					
Outline	General or Specialized : Specialized Field of learning : Information System, Programming, Networks Foundational academic disciplines: Information science, Information Engineering and concern subjects, Software and concern subjects, Information Network and concern subjects. 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". Course outline : This lecture presents the flow of information systems development, which is basis of Software Engineering. Additionally, it also presents the process of software development and its method, system analysis and design method, and project management.				
Style	Course method : The lessons will be centered on board writing. In order to deepen the understanding, we will proceed with the lessons while solving the exercises as appropriate. Grade evaluation method : Regular examination scores are calculated as the average of mid-term and final examinations. Retesting is not conducted in principle. If the result of the regular test is less than 60 points, the score may be changed if the understanding can be confirmed by the retest. However, the overall evaluation shall not exceed 60 points.				
Notice	Precautions on enrollment : Students must take this class (no more than one-third of the required number of class hours missed). Course advice : As a preparatory study, review the knowledge about information systems and programming learned in the first and second grades. Foundational subjects : Information Literacy(1st year), Basis of Programming(2nd), Information Networks(2nd).etc. Related-Subjects: Information Systems(4th), System Programming(5th), E-business(5th).etc. Attendance advice : Prepare the terminologies concerned with information system and software development in Examination of data-processing technician. Delay of attendance will be counted as absence. Entry after confirmation of attendance will be delayed. If you are late, you will be treated as absent from one credit hour for two times.				
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	
				☐ Instructor Professionally Experienced	
Must complete subjects					
Course Plan					
		Theme	Goals		

2nd Semester	3rd Quarter	1st	Guidance	Understanding of objectives of this lecture.
		2nd	The definition of software engineering1	Understanding of the definition of software.
		3rd	The definition of software engineering2	Understanding of the need for software engineering.
		4th	The process of software development	Understanding of the process.
		5th	The methods of development1	Understanding of the importance of concise design.
		6th	The methods of development2	Understanding of each process model.
		7th	Comprehensive exercise	Understanding of design according to the process model.
		8th	Mid-term examination	
	4th Quarter	9th	Explanation of mid-term examination	Understand the problems of mid-term examination.
		10th	Soft system approach	Understanding of problem-solving methods in an organization.
		11th	Structured analysis and design	Understanding of the features of process oriented approach.
		12th	Data oriented approach	Understanding the features of data oriented approach.
		13th	Object oriented analysis and design	Understanding of the object oriented analysis and design.
		14th	Summary	Understanding of software engineering.
		15th	Final exam	
		16th	Return and commentary of exam answers	Understand the problems of final examination.

Evaluation Method and Weight (%)

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