1 14/	I工業高等		開講年度	令和05年度 (2		授当	美科目 \		
科目基		· 寸1 1丁1X	川州州十汉	ואווינו ן	-049十/又)	JX3	KITI  .	/ /   /エ/ 土丁	
科目番号		0026			科目区分	ī	 専門 / 必履	悠	
授業形態		授業・演	<u> </u>	'		<u> </u>			
開設学科			情報工学科			4		-	
開設期		前期			対象学年 週時間数		2		
教科書/教	数材	[教科書] : ソフト	] 高橋直久・丸山脈 ウェア開発(オーム	 勝久:情報工学レク 社)	チャーシリーズ・	・ソフトウェア工学(森北出版) [参考書] 小泉寿男			
担当教員	Į	廣瀬 誠							
到達目	標								
(2) Und (3) Und	erstand the erstand the	concept of	epts of software lif project managem d procedure of an y systems.	ent in software de	evelopment.		s of syster	n development, and be able to	
ルーブ	リック				_				
			Ideal Level		Standard Level			Unacceptable Level	
Achievement 1			Fully understood the basic concepts of software life cycle and development process.		Understood the basic concepts of software life cycle and development process.		oncepts nd	Does not understand the basic concepts of software life cycle and development process.	
Achievement 2			Fully understood the concept of project management in software development.		Understood the concept of project management in software development.		1	Does not understand the concept of project management in software development.	
Achievement 3			design of the upstream process of system development, and be able to analyze and design		Understand the concept and procedure of analysis and design of the upstream process of system development, and be able to analyze and design rudimentary systems.		nd process t, and be	The candidate does not understand the concept of analysis and design in the upstream process of system development, and how to proceed. They are also unable to perform rudimentary system analysis and design.	
学科の	到達目標項	頁目との関	 係		•				
教育方	 法等								
and st langua additic develo # This # This • Fina			course, students learn the necessity of software engineering, its models and upstream processes using red methods, and acquire knowledge to understand the difference between object-oriented methods uctured methods (object-oriented methods are understood through practice in the programming ge III). (Object-oriented methods are understood with practice in Programming Language III.) In not, students learn about the role of the project manager, who handles projects in software of the object is a BYOD class, so a laptop computer is required.  Course is a BYOD class, so a laptop computer is required.  Course is designed to assess the achievement of the objectives (1) to (3).  exam 45% (no mid-term exam)  cises and assignments 45%						
		• Final e	xam 45% (no mic	l-term exam)	ievement of the	objectiv	res (1) to	(3).	
	もの方・方法	• Final e • Exercis • Final a The tota # Studer cases, th • Did no • More t • The fir # In prir	ses and assignmen ssignment 10% I of these will be unts must obtain 60 estudent will be take the final exhan 1/3 of the exhal exercise has no	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	ll evaluation of the out of 100 points no intention of comments have not l.	objectiv ne cours s to pass ompletin been su	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点		• Final e • Exercis • Final a The tota # Studer cases, th • Did no • More t • The fir # In prir 2/3, it w	ses and assignmen ssignment 10% I of these will be unts must obtain 60 are student will be take the final exhan 1/3 of the exhal exercise has no iciple, no re-examill be taken into contact the student of the exercise has no contact of the exercise	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	ll evaluation of the out of 100 points no intention of comments have not l.	objectiv ne cours s to pass ompletin been su	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.	
注意点 授業の	属性・履修	・Final e ・Exercis ・Final a The toda # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w	ses and assignmen ssignment 10% of these will be unts must obtain 60 te student will be take the final exhan 1/3 of the exemple, no re-examill be taken into controller.	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	Il evaluation of the out of 100 points no intention of comments have not l.	objectiv ne cours s to pass ompletir been su	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点 授業の		・Final e ・Exercis ・Final a The toda # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w	ses and assignmen ssignment 10% I of these will be unts must obtain 60 are student will be take the final exhan 1/3 of the exhal exercise has no iciple, no re-examill be taken into contact the student of the exercise has no contact of the exercise	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	ll evaluation of the out of 100 points no intention of comments have not l.	objectiv ne cours s to pass ompletir been su	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点 授 <b>業</b> の 図 アクラ	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The toda # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w	ses and assignmen ssignment 10% of these will be unts must obtain 60 te student will be take the final exhan 1/3 of the exemple, no re-examill be taken into controller.	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	Il evaluation of the out of 100 points no intention of comments have not l.	objectiv ne cours s to pass ompletir been su	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点 授 <b>業</b> の 図 アクラ	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w	ses and assignmen ssignment 10% of these will be unts must obtain 60 te student will be take the final exhan 1/3 of the exemple, no re-examill be taken into controller.	I-term exam) Ints 45% Ised as the overal Interpolate points or more of the deemed to have in the last of the last	ievement of the levaluation of the put of 100 points no intention of comments have not l. ven in this course	objectivene courses to passompletine been sue (howe	se. s the cour ng the cou ubmitted.	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点 授業の	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w	ses and assignmen ssignment 10% I of these will be unts must obtain 60 te student will be take the final exhan 1/3 of the exemple of the exe	I-term exam) Ints 45% Ised as the overal Ised as th	Il evaluation of the but of 100 points no intention of comments have not l. ven in this course	ne cours s to pass ompletin been su e (howe	se. s the courng the cou ubmitted. ver, if the	se. However, in the following rse and will fail the course.  attendance rate is more than	
注意点 授業の 図 アクラ	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w 多上の区分	ses and assignmen ssignment 10% of these will be unts must obtain 60 estudent will be take the final exhan 1/3 of the eximal exercise has not expected by the same of the eximal exercise has not expected by the same of the eximal exercise has not expected by the same of the eximal exercise has not expected by the example of the exercise has not expected by the example of the exercise by the example of the example of the exercise by the example of the exercise by the example of the	I-term exam) Ints 45% Ised as the overal Ints points or more of deemed to have ram. Isercises and assign to been submitted ination will be given sideration).  Ints 45% Ised as the overal points or more of the example	Il evaluation of the but of 100 points no intention of comments have not l. ven in this course	me cours s to pass ompletin been su e (howe	se. s the cour ng the cou ubmitted. ver, if the o到達目標 tand achie	se. However, in the following rse and will fail the course. attendance rate is more than	
注意点 授業の 図 アクラ	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w 多上の区分 こング	ses and assignmen ssignment 10% 1 of these will be unts must obtain 60 to student will be staken into controller, no re-examill be taken into controller will be staken into controll	Interm exam) Ints 45% Ised as the overal Ised as the overal Ised points or more of deemed to have ream. Isercises and assign to been submitted ination will be given sideration).  Is cale Software Devitions in Large-Scatter process Is a gillow the control of the	Il evaluation of the out of 100 points no intention of comments have not l. ven in this course	me cours s to pass ompletin been su e (howe Underst	se. s the cour ng the cour ubmitted. ver, if the  D到達目標 tand achie	se. However, in the following rse and will fail the course.  attendance rate is more than    実務経験のある教員による授業	
注意点 授業の 図 アクラ	属性・履修 ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w 多上の区分 こング	ses and assignmen ssignment 10% 1 of these will be unts must obtain of the student will be to take the final exhan 1/3 of the exhan 1/3 of the exhan exercise has noticiple, no re-examill be taken into color ICT 利用  W業内容  ISSUES in Large-Seissues in Large-Seissues in Large-Seissues and Solu Development  Software developent Waterfall model  Project Management	d-term exam) nts 45% used as the overal points or more of deemed to have ram. ercises and assign to been submitted ination will be given cale Software Dev tions in Large-Sco ment process , Agile, etc. ent (1) evelopment proce ent (2)	Il evaluation of the out of 100 points no intention of comments have not l. ven in this course	me course to pass ompleting been sure (hower Underst	se. s the cour ng the cour ubmitted. ver, if the  D到達目標 tand achie	se. However, in the following rse and will fail the course.  attendance rate is more than  □ 実務経験のある教員による授業  evement 1	
注意点 授業の ② アクラ	属性・履修ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w  多上の区分 こング  週  1週  2週  3週  4週  5週	ses and assignmen ssignment 10% 1 of these will be unts must obtain of the student will be take the final exhan 1/3 of the exhan 1/3 of the exhan exercise has noticiple, no re-examill be taken into color of the exhance of the exha	d-term exam) ants 45% used as the overal of points or more of deemed to have ream. ercises and assignate been submitted ination will be given been submitted in	ll evaluation of the out of 100 points no intention of comments have not l. ren in this course 虚 遠隔授業対応 relopment ale Software	me course to pass ompleting been sure (hower Understande	se. s the courng the	se. However, in the following rse and will fail the course.  attendance rate is more than  □ 実務経験のある教員による授業  evement 1  evement 1  evement 2	
注意点 授業の ② アクラ	属性・履修ティブラーニ	・Final e ・Exercis ・Final a The tota # Studer cases, th ・Did no ・More t ・The fir # In prir 2/3, it w  多上の区分 こング  週  1週  2週  3週  4週  5週  6週	ses and assignmen ssignment 10% 1 of these will be unts must obtain of the student will be to take the final exhan 1/3 of the exhan 1/3 of th	d-term exam) ants 45%  used as the overal of points or more of deemed to have ream. expersises and assignate been submitted ination will be given been submitte	ll evaluation of the but of 100 points no intention of comments have not l. ven in this course	me courses to passompletin been sue (hower Underst	se. s the courng the	se. However, in the following rse and will fail the course.  attendance rate is more than    実務経験のある教員による授業  evement 1  evement 1  evement 2  evement 2	

		8週	Requirements Analysis • Requirement definiti	Understand achieve		t 3		
	2ndQ	9週	Requirements Analysis • Specification	s (3)	Understand achievement 3			
		10週	Structured Analysis (1 • What is Structured Ausing data flow diagra	Ánalysis? Analysis procedur	Understand achievement 3			
		11週	Structured Analysis (2 • Process specification	) , data dictionary	Understand achievement 3			
		12週	Structured Analysis (3 • ER diagram, state tr	) ansition diagram	Understand achievemen	Understand achievement 3		
		13週	Final exam • To check understand	ding of Weeks 1 to 12	Measuring understanding of achievement 1,2 and 3			
		14週	Upstream system design using structured analysis (1) • Return and review of final examinations, and preparation of upstream design documents using DFD, etc.		Understand achievement 1, 2 and 3			
		15週	(2)	gn using structured analysi sign documents using DFD,	Understand achievement 1, 2 and 3			
		16週	(3)	gn using structured analysi In documents using DFD,	Understand achievement 1, 2 and 3			
モデルコ	アカリキ	ユラム	ムの学習内容と到達目標	<u> </u>				
分類		分里	野 学習内容 学習	内容の到達目標		到達レベル 授業週		
評価割合	•							
			Final exam	Exercises and assignments	Final assignment	合計		
総合評価割合			45	45	10	100		
Basic Proficiency			20	20	0	40		
Specialized Proficiency			20		10	50		
Cross Area Proficiency			5	5	0	10		