	Course			Course ID	ICE30	014
	Title	Operating System		(Course Type)		
Course Information	(Cre	edit/ hours per week) 3/3	Version (date)		
Instructor	Prof. Ki Ch	nang Kim, Prof. Deok-	Hwan Kim			
Course		Cou	Relation with Outcon	_		
Learning Objective	1 1	Ability to solve inform problems using math knowledge, and inform	5			
	2 8	Ability to use up-to- appropriate tools to engineering problems				
Compe	Understand the 5 basic OS concepts: Interrupt, Process, File, Memory, Device. Learn the conce				the concepts	
	NO		ı	Details		
Course	Understand OS basic concepts					
Outcomes	Analyzing kernel code					
		, 0				
	N	Nodifying kernel code				
(Prerequisites)	N C Progran	Modifying kernel code				
(Prerequisites) (Recommended Courses after This Course)	C Progran	Modifying kernel code				
(Recommended Courses after	C Progran	Modifying kernel code	Linux (Ubuntu Lir	nux Distribution)		
(Recommended Courses after This Course) Course Software	C Progran	Modifying kernel code		,	Place Year	ISBN
(Recommended Courses after This Course) Course Software	C Progran	Modifying kernel code	Linux (Ubuntu Lir	,	Place Year	ISBN
(Recommended Courses after This Course) Course Software or Tool	C Progran	Modifying kernel code	Linux (Ubuntu Lir	,	Place Year	ISBN
(Recommended Courses after This Course) Course Software or Tool	C Progran	Modifying kernel code	Linux (Ubuntu Lir	,	Place Year	ISBN
(Recommended Courses after This Course) Course Software or Tool	C Progran	Modifying kernel code	Linux (Ubuntu Lir	Publisher F	Place Year	ISBN

	(Evaluation Criteria)	(Attendance)	10%	(Quiz)	%	(Lab Assignment)	10%	(Etc.)	0%
		(Mid-term Exam)	40%	(Final Exam)	40%	(Tota	al)	100	0 %
	(Methods of Evaluation)	Assessment will be made on the basis of written examination and lab assignments.							

Weekly Topical Outline of Course				
	Topic	booting process		
(1st Week)	Contents	Computer System Structures		
	Assignment			
	Topic	interrupt concept		
(2nd Week)	Contents	Operating System Structures		
	Assignment			
	Topic	implementing interrupt		
(3rd Week)	Contents	OS services, system call		
	Assignment			
	Topic	implementing keyboard, timer interrupt		
(4th Week)	Contents			
	Assignment			
	Topic	process concept		
(5th Week)	Contents			
	Assignment			
	Topic	implementing simple process		
(6th Week)	Contents			
	Assignment			
(7th	Topic	context switching		

Week)	Contents	
		CPU scheduling
		,
	Assignment	
	Topic	Midterm exam.
(8th Week)	Contents	
	Assignment	

	Topic	IDC
(9th Week)	Contents	Process Synchronization
	Assignment	
	Topic	File system
(10th Week)	Contents	File System Interface
	Assignment	
	Topic	implementing file system
(11th Week)	Contents	
	Assignment	
	Topic	Memory
(12th Week)	Contents	
	Assignment	
	Topic	implementing memory manager
(13th Week)	Contents	
	Assignment	
	Topic	paging system, virtual memory
(14th Week)	Contents	

	Assignment	
	Topic	Final examination
(15th Week)	Contents	
	Assignment	
	Topic	
(16th Week)	Contents	
	Assignment	