Basic Course Information Course Number	02005101	Subject Category	Compulsory (Cl]
Clase Format	Lecture	Credit Type and Number of Credits	1]
Department Period of Study	Computer Semester 2	Student Category Classes per Week	Year 3 1	
Required Materials Instructor	Hardware: Laptop and Table Mio Kobayashi	at, Handouts will be dist Thanyawarat Pawaso	ributed Shashi Shah	1
Course Objective The subject provides students with fum- ubject covers a range of key topics, ino communication. (4) Process Scheduling, system Security, Students engage in a c comprehensive understanding of these	demental knowledge of opera Juding (1) Introduction to OS, (5) Memory Managementa, (6) Jynamic learning experience th subjects.	ting systems and their of (2) Processes and Thr 9) Input/Output, (7) File nat combines lectures a	connection to security. The eads. (3) Interprocess Systems, 18) Operating nd group work to foster a	
Evaluation (Rubrio)	Ideal Level of Achievement Very Good To be able to understand and explain the functions of	Standard Level of Achievement (Good) To be able to	Unacceptable Level of Achievement (Fail) Not to be able to understand the functions of]
Inderstanding the functions of Operating avstems and related technologies	Operating Systems and related technologies	understand the functions of Operating Systems and related technologies	Operating Systems and related technologies	
Understanding the interprocess communication and being able to apply hose knowledge to their software sevelopment	To be able to understand and explain the interprocess communication and to be able to apoly those knowledge to their software development	To be able to understand and explain the interprocess communication	Not to be able to understand the interprocess communication	
Understand threats for CG and being able to explain how to protect CG from hreats	To be able to Understand threats for OS and to be able to explain how to protect OS from threats	To be able to Understand threats for OS	Not to be able to Understand threats for OS	-
0(1) Ability to operate and administe 0(2) Ability to understand the operal		nd hardware	alla punkleren	
C(4) Ability to understand the compu- system within networks, servers, cor]
Feaching Method Dutline:		Lecture and Practice		4
Jase Format: Please Note :	Lecture. Practice. 0 Students are expected to ac with other group members ti "Modern Operating Systems" class.	Quiz, Group work, Home	sworks and Reports s and collaborate effectively ation. aum will be referenced in the	
Course Plan Semester 2	Contents and Met	hod of Course	Goals	Related MCC
1st week (Nov, 10)	(Online) Introduction		To be able to understand and explain what students learn in this subject	V-D 5
2nd week (Nov, 17)	(Online) Introduction to Operating System		To be able to understand and explain what OS is and the main functions of OS. To be able to understand and explain the various types of OS	V-D 5
3rd week Nov, 24i	Processes and	l Threads	To be able to understand and explain what process and thread are	V-D 5
4th week (Dec. 1)	InterProcess comm	unication (PC)	To be able to understand InterProcess communication To be able to explain different types of approaches to PC	V-D 5 V-D 5
5th week Dec. 8l	Practice and Review (1)		To be able to review what students learned To be able to use the knowledge to consider the problems	V-D 5
6th week iDec, 15i	Process Scheduling		To be able to understand and explain process scheduling To be able to explain data structure used in the process scheduling	V-D 5
7th week (Dec. 22)	Practice and Review (2)		To be able to review what students learned To be able to use the knowledge to consider the problems	V-D 5
8th week IDec, 29i	School Event			
9th week (Dec. 27-Jan,9)	Mid-term Examination			
10th week Jan, 12	Memory management (1)		To be able to understand and explain the main concept of memory management	V-D 5 V-D 5
1.1th week Jan, 19i	Memory management (2)		To be able to understand and explain the memory virtualization	V-D 5 V-D 5 V-D 5
12th week Uan, 26i	Input/Output		To be able to understand and explain the main concept of input/Output To be able to understand and explain interrupt control	V-D 5
13th week (Feb. 2)	Practice and Review (3)		To be able to review what students learned To be able to use the knowledge to consider the problems	V-D 5
14th week IFeb. SI	File Systems (1)		To be able to understand and explain file systems	V-D 5
15th week (Feb, 16)	File Systems (2)		To be able to understand and explain file studctures To be able to understand and explain various functions related to file systems and directories	V-D 5
18th week IFeb, 23	Security		To be able to understand and explain threats for CS To be able to explain how to protect OS from threats	
17th week (March 1)	Practice and Review (4)		To be able to review what students learned To be able to use the knowledge to consider the problems	V-D 5
18th and 19th weeks March 8-18	Final Exami	nation		
March 8-18				
March 8-18 20th week March 22	Peturn Exam Papers	s and Feedback		