2012학년도 2학기 강의계획서

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교 과 목 명	시스템프로그래밍			교강사명	임민규		
과 목 번 호	2088			학 점	3	시 간	3
강의요시/강의실	월13-15(새504), 목09-11(새601)			수강대상 학 년	2학년		
교강사 E-Mail				교 강 사 연 락 처			
Home Page							
상 담 시 간	available with contact in advance						
교 재 명	Unix System Programming: Communication, Concurrenc		구 분	주교재	저 자	Kay A. Robbins and Steven Robb	출판사	Prentice Hall
교 재 명	System Programming		구 분	부교재	저 자	Mingyu Lim	출판사	

성적 평가 방법	항 목	비중(%)	만점	공개여부	설명
	출석률	10%	10점	공개	
	중간고사	30%	30점	비공개	
	기말고사	40%	40점	비공개	
	과제물	20%	20점	비공개	
	기타1	0%	0점	비공개	
	기타2	0%	0점	비공개	
	기타3	0%	0점	비공개	
	기타4	0%	0점	비공개	
	기타5	0%	0점	비공개	

강 의 목 표	In this class, students learn the concept of a UNIX/LINUX system, interface, and programming, and so on. This class also provides practical programming experiences based on the usage of various system resources such as a file, process, thread, network, and I/O.
교과목 해설	This course introduces the basic concepts in UNIX operating system kernel and teaches students how to do programming on the system software level using the kernel.
강의진행 방법	This course is proceeded with lectures given by the instructor. System Programming concepts in UNIX are explained with real example codes. Some homeworks are given to students for better understanding of contents. There are comprehensive mid-term and final exam.

주	기간	주 제	강의내용	PAGE	과제 및 참고자료	준비물
1	08/27~09/02	Introduction	Introduce major ideas and thems in computer systems	1-20		
2	09/03~09/09	Programs, Processes and Threads	Learn about programs, processes and threads Experiment with memory allocation and manipulation	21-57		
3	09/10~09/16	Processes in UNIX	Leaen how to create processes Experiment with fork and exec	83~111		
4	09/17~09/23	UNIX I/O	Learn the basics of device-independent I/O Experiment with read and write	91-132		
5	09/24~09/30	Files and Directories	Learn about file systems and directories Experiment woth directory traversal	145-172		
6	10/01~10/07	Files and Directories	Use functions for accessing directories Understand hard links and symbolic links	173-180		
7	10/08~10/14	UNIX Special Files	Learn about interprecess communication Experiment with client-server interactions	183-218		
8	10/15~10/21	Mid-term Exam	Mid-term Exam			
9	10/22~10/28	UNIX Special Files	Use device control to set parameters Understand how UNIX achieves device independence	219-223		
10	10/29~11/04	Times and timers	Learn how time is represented	301-339		
11	11/05~11/11	POSIX Threads	Learn basic thread concepts experiment woth POSIX thread calls	409-446		
12	11/12~11/18	POSIX IPC	Learn about classical interprocess communication experiment with synchronized shared memory	511-548		
13	11/19~11/25	Connection-Oriented Communication	Learn about connection-oriented communication	609-656		
14	11/26~12/02	Connectionless Communication and Multicast	Learn about connectionless communication	691-724		
15	12/03~12/09	Connectionless Communication and Multicast	Experiment with sockets and UDP	725-732		
16	12/10~12/16	Final exam	Final exam			