

COMP3301 Weekly Outline 2008

Week	Topic	Labs, etc.	References
1 (23/7)	Operating System Fundamentals, MINIX3	Prac 1: Introducing Minix	TW: Chapter 1
2 (30/7)	Processes, Processes in MINIX 3	Prac 2: Recompiling, patches, system calls <i>Tut1 discussed</i>	TW: 2.1, 2.2 TW: 2.5
3 (6/8)	Processes: Synchronisation & Scheduling; MINIX System Calls	Prac 3: Trapping and kernel calls <i>Tut2 discussed</i>	TW: 2.3, 2.4 TW: 2.6, 2.7, 2.8
4 (13/8)	PUBLIC HOLIDAY – no lecture	Tutor available Thursday lab sessions	
5 (20/8)	I/O Hardware I/O Software Overview of I/O in MINIX3	Lab sessions for Assignment consultation. <i>Tut3 discussed</i> ASSIGNMENT ONE DUE 25/8	TW: 3.1, 3.2 TW: 3.4
6 (27/8)	Deadlock Disks Device Drivers in MINIX 3	Prac 4: Device driver - creating new memory device <i>Tut4 discussed</i>	TW: 3.3 TW: 3.5-3.8
7 (3/9)	Memory Management Swapping Virtual memory Overview of Minix Process Manager	Prac 5: Process manager <i>Tut 5 discussed</i>	TW: 4.1, 4.2, 4.3 TW: 4.7
8 (10/9)	GUEST LECTURE: Dr John Williams, Petalogix	Lab sessions for Assignment consultation.	http://www.petalogix.com/
9 (17/9)	Page Replacement Algorithms Paging Implementation Segmentation Implementation of MINIX3 Process Manager	Lab sessions for Assignment consultation. <i>Tut 6 Discussed</i> ASSIGNMENT TWO DUE 22/9	TW: 4.4, 4.5, 4.6 TW 4.8
10 (24/9)	File Systems Directories FS Implementation Overview of MINIX3 FS	Prac 6: File System <i>Tut 7 discussed</i>	TW 5.1, 5.2, 5.3.1-5.3.4 TW 5.6
(1/10)	Mid-semester Lecture Break		

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11 (8/10)	GUEST LECTURER – To be confirmed Implementation of MINIX3 File System	Lab sessions for Assignment consultation.	TW 5.7
12 (15/10)	File Systems – Reliability, Security, Performance Exam Discussion	Lab sessions for Assignment consultation. <i>Tut 8 Discussed</i>	TW 5.3.5-7, 5.4, 5.5
13 (22/10)	No lecture, unless required and announced on website.	ASSIGNMENT THREE DUE 20/10 No lab classes	
1-15/11	1 hr FINAL EXAM, Yet to be scheduled.		

Abbreviations

TW: Textbook, Andrew S Tanenbaum, Albert S Woodull, *Operating Systems: Design & Implementation*, 3rd Edition, Prentice Hall, 2006.