

(SYLLABUS)

1.

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|----------------------|-------------------------------|--------------|-----|----------------------------|-----------------|
| (Course Title) | | (Instructor) | | | |
| (Year) | 2025 | (Semester) | 1 | (Course No.) | 2150182801 |
| (Class) | 01 | (Open to) | 4 | (Course Classification) | -IT / - |
| / | 3.0 (0) / 3 | | 100 | 가 | 가 |
| | | | | | |
| (Office) | | (Telephone) | | (e-mail) | chlee@ssu.ac.kr |
| | (PBL), (TBL) | | + | | 2023 |
| | (*) (ABEEK Classification) | | | (*) (ABEEK Requirement) | |
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| (Course Description) | 가 UNIX UNIX . | | | | |

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| 가 | (100) | (100%) |
| | 50 | 50 |
| | 25 | 25 |
| | 15 | 15 |
| | 10 | 10 |

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| (Required Texts) | | * /Operating System Concepts/Silberschatz, Avraham , PETER/John Wiley & Sons In/ |
| | () | * / / /2023 |
| | C | C 가 . |
| | Engaged learning + . () 가 . : 50% 15% 25% 10% | |

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2.

| (Week) | (Keyword) | (Description) | | (Texts) |
|--------|-----------------------------|--|-------------|--------------------------|
| 01 | OS | Introduction to OS: computer | | 1 |
| 02 | OS structure | Computer system architecture and Operation | , , | 2 |
| 03 | Process | Concept, state transition | , , | 3 |
| 04 | Process | IPC and concurrent process, Linux Practice: installation | , , , , , , | 3 |
| 05 | Thread | Concept and operation, Linux Practice: basic commands and Administration | , , , , , , | 4 |
| 06 | Thread | Thread and multithread, Linux: process and threads | , , , , , , | 4 |
| 07 | CPU scheduling | Process scheduling algorithm | , , , , , , | 5 |
| 08 | Synchronization | Synchronization, mutex, semaphore, Linux practice: multiple processing and threads | , , , , , , | 6 |
| 09 | OS | OS summary and extras | | 1 |
| 10 | Synchronization Deadlock | Synchronization examples, Deadlock, starvation, Linux practice: synchronization, | , , , , , , | 7,8 |
| 11 | Main memory | Memory management : segmentation, paging | , , | 9 |
| 12 | Virtual memory | Demanding page and replacement | , , | 10 |
| 13 | Virtual Memory | () Frame allocation and others | , , | 5/31 () 1:30-4:00 +@ |
| 14 | File system | File, File system, File allocation | , , | 13 |
| 15 | File system | Directory and protection | , , | 13 6/14 () 3:00-5:00 |

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3. ()

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| | Open-ended problem | | |
| | Teamwork | | |
| | Communication skills | | |