የትኩረት መስኮችና ግቦች

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| --- | --- | --- | --- | --- | --- | --- |
| የትኩረትመስክ | ግብ | የግብ መለኪያ | **የግብ ውጤት አመልካቾች(መለኪያ)** | **ዋና ዋና ተግባራት** | | |
| የቴክኖሎጂ እና የእውቀት ባለቤትነት | **መነሻ** | **ዕቅድ** |  |
| መሰረታዊ የኦፕሬቲንግ ሲስተም ሃሳቦችን መረዳት | 70% | ግልፅና የተብራራ ዶክመንት ማዘጋጀት | 15% | 100% | ኦፕሬቲንግ ሲስተም ፅንሰ ሃሳብ   * + [User vs Kernel](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#user-vs-kernel)   + [Typical operating system architecture](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#typical-operating-system-architecture)   + [Monolithic kernel](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#monolithic-kernel)   + [Micro kernel](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#micro-kernel)   + [Micro-kernels vs monolithic kernels](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#micro-kernels-vs-monolithic-kernels)   + [Address space](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#address-space)   + [User and kernel sharing the virtual address space](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#user-and-kernel-sharing-the-virtual-address-space)   + [Execution contexts](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#execution-contexts)   + [Multi-tasking](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#multi-tasking)   + [Preemptive kernel](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#preemptive-kernel)   + [Pageable kernel memory](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#pageable-kernel-memory)   + [Kernel stack](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#kernel-stack)   + [Portability](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#portability)   + [Asymmetric MultiProcessing (ASMP)](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#asymmetric-multiprocessing-asmp)   + [Symmetric MultiProcessing (SMP)](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#symmetric-multiprocessing-smp) Advanced concept * [Linux development model](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#linux-development-model) * [Linux source code layout](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#linux-source-code-layout) * [Linux kernel architecture](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#linux-kernel-architecture) * [arch](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#arch) * [Device drivers](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#device-drivers) * [Process management](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#process-management) * [Memory management](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#memory-management) * [Block I/O management](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#block-i-o-management) * [Virtual Filesystem Switch](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#virtual-filesystem-switch) * [Networking stack](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#networking-stack) * [Linux Security Modules](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec1-intro.html#linux-security-modules) |
|  | መሰረታዊ የኦፕሬቲንግ ሲስተም አሰራርን ማወቅ | 30% | ግልፅና የተብራራ ዶክመንት ማዘጋጀት | 0 | 80% | ሲስተም ኮል   * [Linux system calls implementation](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec2-syscalls.html#linux-system-calls-implementation) * [System call table](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec2-syscalls.html#system-call-table) * [System call parameters handling](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec2-syscalls.html#system-call-parameters-handling) * [Virtual Dynamic Shared Object (VDSO)](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec2-syscalls.html#virtual-dynamic-shared-object-vdso)   ፕሮሰስ   * [Processes and threads](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#processes-and-threads) * [Overview of process resources](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#overview-of-process-resources) * [struct task\_struct](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#struct-task-struct) * [Inspecting task\_struct](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#inspecting-task-struct) * [Threads](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#threads) * [The clone system call](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#the-clone-system-call) * [Namespaces and "containers"](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#namespaces-and-containers) * [Accessing the current process](https://linux-kernel-labs.github.io/refs/heads/master/so2/lec3-processes.html#accessing-the-current-process) |