

Course Contents

There will be a lecture, lab and assignment on each of this topics (tentatively).

1. Shell commands
2. Connecting to MySQL, PostgreSQL, sqlite and ndbm using C
3. Shared memory, semaphores and signals using C
4. Multi-processing, multi-threading and pipes using C
5. GUI programming through GTK
6. TCP, UDP, Unix and Raw sockets using C.
7. Select, poll, read, write on sockets. SSL connection and basic encryption using C.
8. Capturing and injecting packets using libpcap and libnet
9. Using ncurses for console graphics and handling large files (>2GB) using C.
10. Connecting to Oracle using proc (if time permits)