

Syllabus for 2009

Standard C89/C99

Advance C programming

Microcontroller programming on C

Linux Device Driver programming on C

Networking programming on C

Application development using SDL and GTK

Linux Essential for C programmers



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IP Telephony in C

1. C Programming
2. Development Tools: vi, gcc, make, ldd, cscope, gdb, nm, valgrind, ulimit, top.
3. Unix Programming (Processes, Signals and Files)
4. Inter Process Communication (IPC)
5. Introduction to Networking
6. Port, IP Address, Firewall, LAN setup
7. Network Programming (TCP/IP, UDP, Sockets)
8. Sockets : Operation, Socket types, Domains, Name Binding, Closing Sockets, I/O Multiplexing, Communication Protocols
9. Client/Server Models and uses, Connection Based Services, Connectionless Services, Network Database
10. Soft Phone the Future Telephony : Outbound call, Inbound call, Call Transfer, Call Conference, Voice Message, Voice Recording

Faculty : Susant K Rout

Duration : 1 Month (60 hours theory and unlimited Practical time)

