BSE3205 UNIX Shell Programming (4CU)

Course Objectives; At the end of the course students should be able to: (i) use the unix operating system for information handling and software development; and (ii) develop engineering applications using c language in a unix environment.

Course Content; This course introduces the UNIX operating system as a basic environment for information handling and software development. It covers the UNIX file system, job control, and processes using both the C shell and Korn shell, common UNIX utilities (sed, awk, grep), UNIX networking utilities, piping and redirection, and an introduction to shell programming.

Computer engineering applications programming using the C language in a UNIX environment. Use of UNIX tools including filters and shell scripts. Over view of UNIX software design practices using tools such as Make and SCCS.The UNIX system interface. Software design projects.

Other topics include advanced programming in both the C shell and the Korn shell using project management tools (SCCS or RCS), using software development tools (make), and an introduction to system administration.

References

•The New Korn Shell Command And Programming Language, by MorrisI. Bolsky, David G. Korn(Contributor).

•Korn Shell Programming by Example, by Dennis O’Brien, David Pitts (Contributor).

•The Korn Shell Linux and Unix Programming Manual (2ndEdn) by Anatole Olczak.

•Linux Shell Scripting with Bash by Ken O. Burtch.

•Unix Shell Programming by Stephen Kochan and Patrick Wood (third Edition).