

19CS405 – Operating Systems

Topic #1	Basics of Shell Scripting
Overview of the Topic #1	 Shell programming is a group of commands grouped together under single filename. After logging onto the system a prompt for input appears which is generated by a Command String Interpreter program called the shell. The shell interprets the input, takes appropriate action, and finally prompts for more input. The shell can be used either interactively - enter commands at the command prompt, or as an interpreter to execute a shell script. Shell scripts are dynamically interpreted, NOT compiled. Common Shells. C-Shell - csh : The default on teaching systems Good for interactive systems Inferior programmable features Bourne Shell - bsh or sh - also restricted shell - bsh : Sophisticated pattern matching and file name substitution Korn Shell : Backwards compatible with Bourne Shell Regular expression substitution emacs editing mode Thomas C-Shell - tcsh : Based on C-Shell Additional ability to use emacs to edit the command line Word completion & spelling correction Identifying your shell. SHELL KEYWORDS : echo, read, if fi, else, case, esac, for , while , do , done, until , set, unset, readonly, shift, export, break, continue, exit, return, trap , wait, eval ,exec, ulimit , umask.
Teaching Method	Additional Lab program on basics of shell scripting
Proof for the activity	<u>Click Here</u>
Feedback from the students about the activity and Knowledge gained	The students understood the basics of shell scripting and can write small scripts to perform operating system functions.
Outcome of the activity	Students have gained knowledge on the basics of the various shell programming features thereby enabling them to perform small operating system functions.

Topic #2	Recent Trends in Android Development
Overview of the Topic #2	Unit V of the syllabus covers few of the predominant operating systems. The students have been taught the full functionality of iOS and Android OS. This topic covers the steps involved in creating a simple mobile application using Android OS. Three video lectures have been shared Three video lectures describing the step by step procedure to create
	mobile apps have been shared with the students.
Teaching Method	Demo videos on Mobile Application Development
Proof for the activity	<u>Click Here</u>
Feedback from the students about the activity and Knowledge gained	The students understood the step-by-step procedure to create mobile apps and have tried to implement the same on their mobile phones.
Outcome of the activity	Students have gained knowledge on the various types of operating systems and the step-by-step procedure to create mobile applications.