

CS344 Operating Systems Lab (4 credits)

- Mode of Operation: Group Assignments
 - Toy Operating System – Xv6, a popular instructional operating system
 - Limited contact hours for doubt clearing and some tutorial help
 - Tools – Laptop with Ubuntu OS or Ubuntu VM on Windows
 - Online help and tools available for Xv6
- 4 Assignments between 9th Sep and 20th Nov
 - 1st - Basic assignment to familiarize with Xv6
- Interaction: Piazza, Direct posting to TAs, Teams message
- Assessment: Submission of code, report and viva (individual)
- One member in group should have option to use screen share in Teams (preferably)

Xv6 OS

- A simple Unix-like OS
 - <https://pdos.csail.mit.edu/6.828/2014/xv6.html>
- Compiles using the GNU C compiler, targeted at the x86 using ELF binaries
- X86 machine emulated using QEMU
- Linux-based OS recommended – Windows users to install VM
- Complete Code (about 9000 lines) online PDF file and HTML file
- Assignments involve familiarization, modifying OS code and execution
- Gives a good understanding of OS development