# Charotar University of Science and Technology
## Faculty of Technology and Engineering

## Devang Patel Institute of Advance Technology & Research
## Computer Engineering Department

| Subject Name & Code : INTERNALS OF OPERATING SYSTEM (CE347) | Semester: 6 |
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| | Task-01 Write a program to implement lseek() system call. A process seeks to 1024 bytes beyond the end of the file mapped by fd (file descriptor). | | |
| | Task-02 Write a program in which, the child process waits for the user input and once an input is entered, it writes into the pipe. And the parent process reads from the pipe. | | |
| | Task-03 Write a program in which, open a file's once and read it twice. Use duplicate system call. | | |
| 6 | **INTERPROCESS COMMUNICATION** | | |
| | Task-01 Inter process communication (POSIX-IPC) using shared memory Study system calls: mmap(), shm_open(), shm_unlink() | | |
| | Task-02 Inter process communication (POSIX-IPC) using pipe Study system call: pipe() | | |
| 7 | **NETWORK COMMUNICATION** | | |
| | Task-01 Write a program to perform client server communication using TCP. | | |
| | Task-02 Write a program to perform client server communication using UDP. | | |
| 8 | Case study: RTOS(Real Time Operating System) | | |
| 9 | Case study: Network Operating System | | |
| 10 | Case study: a Distributed File System for very large files | | |