

Vidya Jyothi Institute of Technology

Department of Computer Science and Engineering

III year I sem

Computer Networks and Operating Systems Lab

LIST OF EXPERIMENTS

Week 1: Simulate the following CPU Scheduling Algorithms using C program:

a) FCFS b) SJF

Week 2: Simulate the following CPU Scheduling Algorithms using C program:

c) Priority d) Round Robin

Week 3: Simulate Paging Technique of Memory Management using C program.

Week 4: Write a program to implement page replacement algorithms (FCFS, Optimal, and LRU).

Week 5: Write a C program to simulate the following file allocation strategies.

a) Sequential b) Indexed c) Linked

Week 6: Write a program to implement Banker's algorithm for deadlock avoidance.

Week 7: Implement the data link layer framing methods such as character stuffing and bit stuffing.

Week 8: Implementation of hamming code algorithm

Week 9: Implement on a data set of characters the three CRC polynomials – CRC 12, CRC and CCIP.

Week 10: Implement Dijkstra's algorithm to compute the Shortest path through a graph.

Week 11: Take an example subnet of hosts. Obtain broadcast tree for it.

Week 12: Write a program for congestion control using leaky bucket algorithm.