## CPU scheduling algorithms

By: Dr. Pushpa Mamoria

## Scheduling Criteria for comparing the CPU scheduling algorithms

- CPU utilization keep the CPU as busy as possible
- Throughput # of processes that complete their execution per time unit
- Turnaround time amount of time to execute a particular process
- Waiting time amount of time a process has been waiting in the ready queue
- Response time amount of time it takes from when a request was submitted until the first response is produced, not output (for time-sharing environment)

## Scheduling Algorithm Optimization Criteria

- Max CPU utilization
- Max throughput
- Min turnaround time
- Min waiting time
- Min response time

## CPU scheduling algorithms

- First in First out(FIFO)
- Shortest Job First (SJF)
- Shortest Remaining Time First
- Priority Scheduling
- Round Robin (RR)