# [MI2.01] System Architectures

# 02.report.scheduling.tex

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Table 1: Process Information

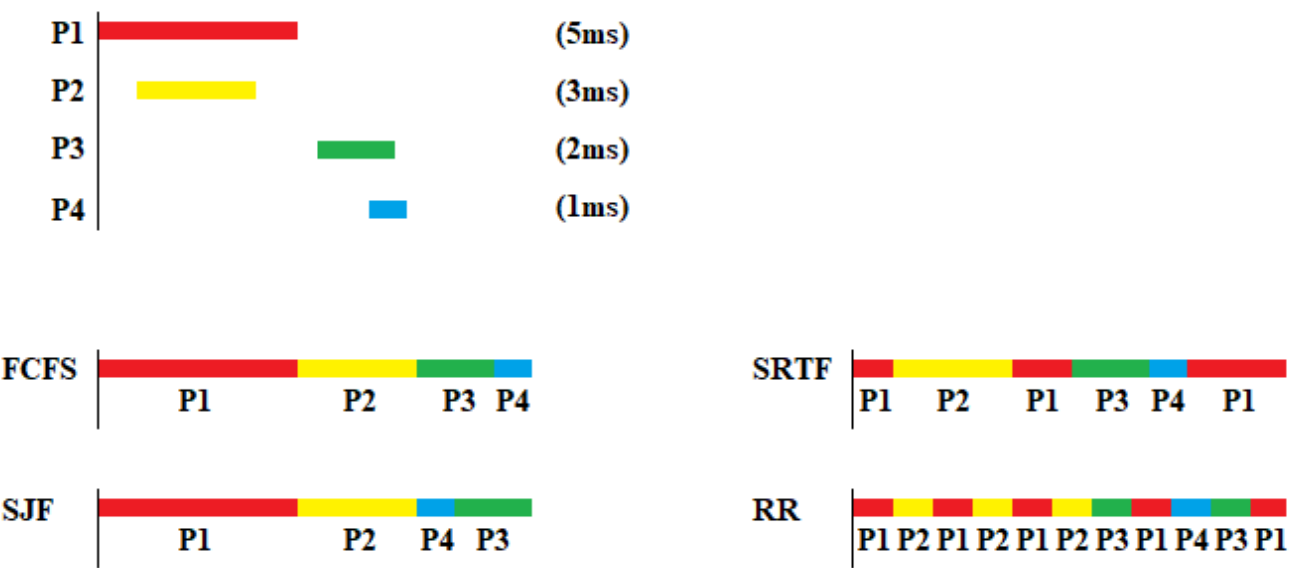| Process | Arrival Time (ms) | Burst Time (ms) |
|---------|-------------------|-----------------|
| P1 | 0.0 | 5 |
| P2 | 1.0 | 3 |
| P3 | 5.5 | 2 |
| P4 | 6.8 | 1 |

# 1   Question 1



Figure 1: Process Schedule

# 2 Question 2

```
Average waiting time:
- FCFS : W = 2.425 ms
- SJF : W = 2.175 ms
- SRTF : W = 1.675 ms
- RR : W = 2.675 ms
```

# 3 Question 3

```
Average turnaround time:
* FCFS :
T(P1) = 5 + 0 ms
T(P2) = 3 + 4 ms
T(P3) = 2 + 2.5 ms
T(P4) = 1 + 3.2 ms
   -->  Average T = 5.175 ms
* SJF :
T(P1) = 5 + 0 ms
T(P2) = 3 + 4 ms
T(P3) = 2 + 3.5 ms
T(P4) = 1 + 1.2 ms
   -->  Average T = 4.925 ms
* SRTF :
T(P1) = 5 + 6 ms
T(P2) = 3 + 0 ms
T(P3) = 2 + 0 ms
T(P4) = 1 + 0.7 ms
   -->  Average T = 4.425 ms
* SRTF :
T(P1) = 5 + 6 ms
T(P2) = 3 + 2 ms
T(P3) = 2 + 1.5 ms
T(P4) = 1 + 1.2 ms
   -->  Average T = 5.425 ms
```