**UNIT IV**

**Session 1 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on Integrated Services Architecture

Approach Components

**Quiz**

The students prepare the questions and ask the group.

Sample questions are

1. Define UDP, TCP
2. List the kind of traffic
3. State the functionalities of router

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**Session 2 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on Services Queuing discipline

Summarization by learners

The student groups allowed discussing among themselves and the key learning summarized by a group leader.

Some of the key learning is

1. FIFO
2. FQ
3. PS

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**Session 3 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on FQ (Fair Queuing)

**Crossword puzzles**

We can encourage the students to solve the crossword puzzle so as to recap the concept s of FQ

The sample words and clues are

Flow: kind of service

Greedy: selfish

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**Session 4 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on PS (Processor Sharing)

Summarization by learners

The student groups allowed discussing among themselves and the key learning summarized by a group leader.

Some of the key learning is

1. Multiple queues
2. One bit at a time
3. Virtual start and finish

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**Session 5 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on BRFQ (Bit- Round Fair Queuing)

Summarization by learners

The student groups allowed discussing among themselves and the key learning summarized by a group leader.

Some of the key learning is

1. Compute virtual start and finish time as before
2. When a packet finished, the next packet sent is the one with the earliest virtual finish time
3. Throughput and delay converge as time increases

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**Session 6 Activity**

**Brainstorming**

A list of ideas spontaneously contributed by the students on GPS (Generalized Processor Sharing)

**Crossword puzzles**

We can encourage the students to solve the crossword puzzle so as to recap the concept s of GPS

The sample words and clues are

BFRQ: bit round fair queuing

WFQ: weighted fair queuing

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**Session 7 Activity**

**Analogies**

Giving known example to connect the new concepts

Sample

WFQ: Token system with different priorities

Summarization by learners

The student groups allowed discussing among themselves and the key learning summarized by a group leader.

Some of the key learning is

1. Emulates bit by bit GPS
2. Same strategy as BRFQ

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**Session 8 Activity**

**Analogies**

Giving known example to connect the new concepts

Sample

RED (Random Early Detection): Medical checkup

**Crossword puzzles**

We can encourage the students to solve the crossword puzzle so as to recap the concept s of RED

The sample words and clues are

Threshold: a limit

Buffer: storage

Discard: removing the packet

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