

National Institute of Technology, Rourkela
DCCN Lab (CS3072)
6th Semester – 2023 Spring Sem

Evaluation Scheme:-

Day to Day Evaluation: 50 Marks

Lab Test / Viva: 20 Marks

Quiz: 20 Marks

Project based Assignment: 10 Marks

Lab 11-12

Objective: Implementation of algorithms, protocols, techniques which are not already deployed in ns2. This assignment is for implementation of partial research work carried out by the researchers.

Q.1 Conduct the experiments for TCP Veno under Wired/Wireless networks. Compare the throughput for Veno vs Reno.

Q.2 Consider any network scenario. Determine Jain Fairness Index of the traffic flow.

Q.3 Implement Elastic TCP on ns2 platform. Compare the congestion window size with Reno.

Q.4 Read the research article/RFC on TCP Bottleneck Bandwidth and Round-trip propagation time (BBR). Make the flow chart and research writeup on it.

Q.5 Read the research article/RFC on QUIC. Make the flow chart and research writeup on it.

Policy for allocation of Assignment:

If last digit of Roll no is 0 or 1 then Q.1

If last digit of Roll no is 2 or 3 then Q.2

If last digit of Roll no is 4 or 5 then Q.3

If last digit of Roll no is 6 or 7 then Q.4

If last digit of Roll no is 8 or 9 then Q.5

Allowed group size: 3-4