**Group Information:**

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| # | Student’s Name |
| 1 | Ameya Marathe |
| 2 | Abhishek Gaikwad |

1. **Topic:** Control Approaches in Cellular Networks
2. **Sub-topic:** A literature review on the current state-of-art congestion control approaches for high throughput and low delay in 4G/5G cellular networks.
3. **Problem statement:** To compare and evaluate current solutions to utilize the cellular network channels efficiently without creating large queuing delays.
4. **Motivation:** The omnipresence of technology in form of smartphones has led to a constant research in improving the communication worldwide. There has been a rapid growth in the amount of data being transferred over cellular networks. With newer technologies like 4G and 5G being continuously improved to meet the current societal and industrial needs, it is necessary to accommodate the high throughput and low latency requirements of end mobile applications and users. To meet this demand, we try to survey the latest state-of-the-art Congestion Control Algorithms (CCAs) and how they play a role in current and future of communication through cellular medium.
5. **Objective:** Clearly state your objectives here – bullets are preferred. Use figures to further explain your objectives clearly.
6. **Timeline:**

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| --- | --- | --- | --- | --- | --- |
|  | April 11  2021 | April 18  2021 | April 25  2021 | May 02  2021 | May 05  2021 |
| Reading review paper [x] |  |  |  |  |  |
| Reading journal paper [y] |  |  |  |  |  |
| Reading journal paper [z] |  |  |  |  |  |
| Making the presentation |  |  |  |  |  |
| Finalizing the presentation and talk |  |  |  |  |  |

1. **References:**

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| [1] | H. Haile, K.-J. Grinnemo, S. Ferlin, P. Hurtig, and A. Brunstrom, “End-to-end congestion control approaches for high throughput and low delay in 4G/5G cellular networks,” vol. 186, p. 1, 2021, doi: 10.1016/j.comnet.2020.107692 |
| [2] |  |
| [3] |  |
| [4] |  |
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