

## ACKNOWLEDGEMENTS

Praise and gratitude are extended to Allah SWT, the Most Gracious and Merciful, for His endless love and blessings, enabling the author to complete this thesis entitled “Co-channel Interference of Frequency Reuse and Multibeam Antenna on the GSO High Throughput Satellite: Techno-Economic and Regulatory Analysis in Indonesia.”

This thesis has been accomplished with many's support, effort, and assistance. The author would like to express the deepest gratitude and appreciation to:

1. My beloved parents, Ibu Kustiarti and Bapak Edi Sutarmo, for their unconditional love, prayers, support, and wisdom, have always encouraged me to stay positive throughout my journey. Thank you for always giving me your best parenting, new opportunities, and the trust to pursue all my dreams. With all my achievements and successes, I wouldn't have reached this stage without Ibu and Bapak extraordinary support and prayers.
2. Mr. Dr. Ir. Heroe Wijanto, M.T., my 1st supervisor, and Mr. Ir. Miftadi Sudjai, M.Sc., Ph.D., as my 2<sup>nd</sup> supervisor for the guidance, knowledge, experience, support, motivation, prayers, and kindness. Working under your mentorship and engaging in research discussions have been invaluable experiences. I feel deeply honored to have been warmly accepted as your thesis mentee. The knowledge and experiences I have gained through your guidance will, insha'Allah, inspire me to continuously improve myself and contribute to others, whether in education or as a professional practitioner, following the exemplary practices you have shared. Thank you for guiding me in achieving this milestone. Pursuing my Master's and having the opportunity to work with you is a blessing I will always cherish.
3. Mrs. Dr. Linda Meylani, S.T., M.T., and Mr. Dr. Eng. Favian Dewanta, S.T., M.Eng., as the examiners for the Monitoring Thesis and the Final Thesis Defense, and Mr. Dr. Iwan Iwut Tritoasmoro, S.T., M.T., as the examiner in the Thesis Seminar Proposal, for valuable input, improvements, and knowledge, have significantly enhanced the progress of my thesis.
4. As my undergraduate supervisor, Bapak Imam MPB, S.T., M.T., a lecturer who introduced me first to Satellite Communication Systems and ignited my deep

passion for this field. Thank you for your unwavering support, guidance, sincerity, enthusiasm, motivation, and positive energy. Your prayers and encouragement have inspired me to pursue higher education and work in a field I deeply love.

5. My first team and family, the Service Provisioning Team, Pak Hakim, Mba Dea, and Mas Ian, for their knowledge, support, and trust, enabled me to balance work and studies.
6. Syahdilla Fitri Utami, a satellite controller and my closest friend in the office, whom I hope will be by my side forever, has been kind, warm, and supportive, giving me strength, comforting, praying, and especially introducing me to the Payload Satellite Team. Thank you for supporting each other in pursuing higher education, tirelessly learning, and being here during such a crucial time.
7. Mas Prasetyo as manager of Capacity Management, Pak Genis as manager of Payload Satellite, and Mba Devi as Payload Satellite Team, for their warm acceptance, very informative and friendly discussion about High-Throughput Satellites regarding this research.
8. My positive college partner, Ade Kurniawan. Thank you for your best role and support in the ups and downs of my undergraduate and master's degrees, which have taught me many things. May Allah always grant you much happiness, ease all your affairs, and much success.
9. Fika Triana, my cheerful sister, satellite partner, and thesis partner. Thank you for giving me much positive energy, full support, valuable discussions, and motivation. The author is very grateful to have met someone with the same passion and ambition to reach this point together.
10. Kak Rizki Hidayati, Kak Giovanni, and Mba Syifa thank you for giving me lots of positive energy, experiences, discussions, and your best knowledge sharing.
11. My master's best friends are Ivan Pratama Sudirman, Hanin Nafi'ah, Rizqi Pratama, Cici Bayhaqi, and Synatria Subekti. Thank you for being good study partners and always supporting the author from our Bachelor's to Master's.
12. Iqro' Rohmah Dinul Haq and Tina Kurnianingsih as my best friends since we were in vocational high school, thank you for learning, growing up together, and supporting each other's dreams.
13. All lecturers, civitas academics, and best friends in the School of Electrical Engineering, Telkom University, who cannot mention all names one by one.

Thank you for always supporting the author in administrative stuff so that the author could finish the master's study well and reach valuable achievements.

14. Pak Sulthon, Pak Supra, Pak Wiwin, Khansa, Novita, and all the colleagues in the office who cannot be mentioned individually but have contributed to the author's growth, learning, support, and kindness have made it possible for the thesis work, master's studies, and job to proceed smoothly.

The author sincerely hopes that everyone who has contributed positively to this journey will always be blessed with success and happiness. May this research be valuable and beneficial to many researchers and practitioners.