

BINUS
UNIVERSITY
GRADUATE
PROGRAM
Master Program

Master of
Industrial Engineering

Briefing Thesis

Master of Industrial Engineering

mie@binus.edu

Jadwal Penting

No.	Kegiatan	Tanggal
1	Penyerahan Outline, Formulir Pengajuan Judul dan Usulan Dosen Pembimbing Tesis untuk program studi Magister Teknik Informatika (pada saat Ujian Akhir <i>IT Research Methodology</i>)	12 – 19 November 2022 (untuk Mahasiswa Online & Reguler)
2	Penyerahan Outline, Formulir Pengajuan Judul dan Usulan Dosen Pembimbing Tesis untuk program studi : - Magister Manajemen Sistem Informasi - Magister Teknik Industri - Magister Ilmu Komunikasi - Magister Akuntansi	<u>28 November – 10 Desember 2022</u>
3	Jadwal Pengumpulan Pra Tesis	30 Januari – 11 Februari 2023
4	Lihat Jadwal Ujian Pra Tesis	7 Hari Dari Kumpul Berkas Pra Tesis
5	Ujian Pra Tesis	7 Hari Dari Lihat Jadwal Ujian Pra Tesis
6	Batas Waktu Pendaftaran dan Pengumpulan Berkas Ujian Ulang Pra Tesis	<u>14 Hari</u> setelah ujian pertama
7	Lihat Jadwal Ujian Ulang Pra Tesis	7 Hari Dari Kumpul Berkas Ujian Ulang Pra Tesis
8	Ujian Ulang Pra Tesis	7 Hari Dari Lihat Jadwal Ujian Ulang Pra Tesis
9	Batas Registrasi matakuliah Pra Tesis untuk Semester Ganjil 2022/2023 Periode 2 bagi yang TIDAK LULUS Ujian Pra Tesis	2 Hari Dari Ujian Ulang Pra Tesis

Outline – apa yang harus disiapkan

↳ dasar penentuan dosling

1. Judul Penelitian
2. Bab I: Pendahuluan, rumusan masalah, tujuan Penelitian
3. Calon dosen pembimbing sesuai topik Penelitian
4. Submit

→ 10 Desember

↳ Referensi

↓
proposal

→ BAB I :

→ BAB II :

→ BAB III :

Industrial Engineering.

1. Design / perancangan sistem.
2. Rekomendasi keputusan / perbaikan sistem
3. Improvement

Daftar Calon Dosen Pembimbing

Master Teknik Industri

Prof Fergyanto E Gunawan

Anie. Ginur.



Professor. Appreciate your time reading this page. Majority of my research articles can be seen in the following links: Sinta, Scopus, dan Google Scholar. If you need any of those papers, just contact me via email: fgunawan at binus.edu. Thank you.

Area of Expertise: Computational Intelligence, Solid Mechanics, Finite Element Method, Inverse Analysis, Structural Health Monitoring, Business Management and Marketing, Decision Science, Computer Engineering

Topik Penelitian:

1. Development of ARMA Models for Detecting Progressive Damage.
2. Simulating Damages on a Laminated Composite Subjected to Low-Speed Impact.
3. Pembuatan Model Simulasi Pengapalan Urea dengan memperhatikan faktor cuaca dan perawatan dermaga.

E-mail: fgunawan@binus.edu

Industrial system design



Taufik received his PhD title at University Putra Malaysia. He is now act as Head of Industrial Engineering Study Program, Binus University. His current expertise are manufacturing and optimization. For further information of his research, it can be checked at his [Sinta](#), [Scopus](#) and [Google Scholar](#) profile.

Area of Expertise: Engineering, Decision Sciences, Computer Science, Business, Management and Accounting, Environmental Science

Topik Penelitian

1. Smart manufacturing dan Manufacturing digital twin
2. Industry 4.0

Email: taufik@binus.edu

Dr Suharjito, SSi, MT



Dr Suharjito currently involve on research of sign language recognition using deep learning especially for Indonesian language (SIBI). He use CNN and RNN to develop model for classifying input videos of Indonesian sign language based on words and sentences. His main expertise are E-Learning, Optimization, Software Engineering, Unified Modeling Language, Artificial Neural Networks, Scheduling Neural Networks, Evolutionary Computation, Supply Chain Management, Fuzzy Logic etc. To access his current research interest, please visit his [Sinta](#), [Google Scholar](#) and [Scopus](#) profile.

data science
selected
topic

engineering
optimization

Area of Expertise: Computer Science, Engineering, Business, Management and Accounting, Decision Sciences, Mathematics, Social Sciences Physics and Astronomy, Environmental Science, Chemical Engineering, Neuroscience

Topik Penelitian

1. Integration of GIS and optimization method for precision farming of palm oil.
2. Decision support system of precision farming for Palm Oil.
3. Multi objective Optimization model of Crude palm oil supply chain.

Email: suharjito@binus.edu

Firdaus Alamsjah, PhD



Firdaus Alamsjah is Executive Director of Binus CREATES. At the Master of Industrial Engineering, he teaches Supply Chain and Logistics and Operations Management. He has more than 20 years of extensive experience in consulting, training, and teaching, which complements his research interests in strategy execution, supply-chain management, and business process management. He has published many articles related to his expertise which can be access at his [Sinta](#), [Google Scholar](#) and [Scopus](#) profile.

Area of expertise: Business Strategy, Supply Chain Management, Business Process Improvement, Innovation

Topik Penelitian

1. Technology and operations management.
2. Digital transformation

Email: alamsjah@binus.edu

Muhammad Asrol



Dr Asrol achieve his Doctor of Engineering degree in 2019 from IPB University, Indonesia. He is interested in supply chain management, engineering optimization, machine learning and intelligence system as his major publications and research. Dr Asrol is an awardee of PMDSU scholarship from the Ministry of Higher Education, Indonesia since 2015 to 2019 to achieve his Master and Doctor degree in four years. Since 2020, Dr Asrol join Master of Industrial Engineering, Binus University as Faculty Member. To access his current research interest, please visit his [Google Scholar](#), [Researchgate](#) and [Scopus](#) profile.

data science

Area of Expertise: Supply Chain Management, Intelligent System, Decision Support System, Agro-industrial Technology, Machine Learning

Topik Penelitian

1. Decision Support System for Sustainability Assessment and Improvement.
2. Decision Support System for supply chain improvement at food industry.
3. Industrial Product Design and Evaluation using data science and MCDM.

Email: muhammad.asrol@binus.edu

Arief S Budiman, PhD

→ Industrial
system
design



Arief Budiman, PhD is currently as research coordinator at Master of Industrial Engineering, Binus University. He is interested in material science, battery for electric car, artificial intelligence and mechanics material. For further information about Arief's research interest, please visit his [Sinta](#) and [Scopus](#) profile

Area of Expertise: Materials Science, Engineering, Physics and Astronomy, Computer Science, Energy

Topik Penelitian

1. Smart (Enabled by AI) Energy Systems (Solar PV, Energy Storage, Electric Vehicle)
2. Industrial System Design for Innovations in Industry 4.0.
3. Renewable energy

Email: arief.suriadi@binus.ac.id ; Arief.Budiman@oit.edu ; suriadi@alumni.stanford.edu

Ardhianiswari Diah Ekawati, PDEng

Dhina

Research topic

1. Quality management and assurance



Assistant Professor. She got her bachelor's degree from Industrial Engineering Dept., ITS Surabaya and took a joint Master degree program, Master of Management from Bina Nusantara University and Master of Commerce in IS from Curtin University, Australia before getting a scholarship offer to have another master degree in Quality, Safety and Environment in Otto-von-Guericke Universität Magdeburg, Germany. She got a Professional Doctorate in Engineering from Mathematics for Industry Dept. Technische Universiteit Eindhoven, the Netherlands. Her research project in Strategic Workforce Planning landed her a job in Steptone/Lumesse, an HR solutions provider, in Düsseldorf, Germany as Business Analyst and then Product Manager. After her return to Indonesia in 2013, she joined Bina Nusantara University as Academic Assurance and Accreditation Specialist and is currently working as Academic Development and Assurance Manager for BINUS Business School. Related to her research interest, you can access it via her [Sinta](#), [Google Scholar](#) and [Scopus](#) profile.

Area of Expertise: Computer Science, Business, Management and Accounting, Medicine, Social Sciences, Decision Sciences

Email: dhina@binus.ac.id

Bachtiar Simamora, PhD



Bachtiar H Simamora, PhD achieved his PhD title at Oklahoma State University, USA. His expertise is in Industrial Engineering and Management, organizational development also project management. The majority of his research can be reached at [Sinta](#), [Scopus](#) and [Google Scholar](#) profile.

Area of Expertise: Business, Management and Accounting, Social Sciences, Computer Science, Economics, Econometrics and Finance, Engineering, Mathematics, Science Arts and Humanities, Decision Sciences

Research topic:

1. Quality assurance and Total Quality Managent

Email: bsimamora@binus.edu

Christian Harito, PhD



Christian Harito, S.T., Ph.D.

Lecturer of Industrial Engineering

Lektor

D6319

Research topic

3D Printing microfluidic

Email: christian.harito@binus.edu

Dr Rida Zuraida



Dr Rida Zuraida is currently Faculty Member of Industrial Engineering Department, Bina Nusantara University. Her current research scopes are Ergonomics, Transportation also human factors. For further information of her research and expertise, please kindly visit her [Sinta](#), [Scopus](#) and [Google Scholar](#) profile.

Area of Expertise: Health & Safety in Industry, Fatigue Management, Fatigue from Driving, Human Factors

Research topic

1. Ergonomic
2. Industrial Product design

Email: rzuraida@binus.edu

Dr Rienna Oktarina



Rienna Oktarina is an assistant professor at the Industrial Engineering Department, Binus University. She achieved her Doctor of Engineering title at the Bandung Institute of Technology. During her dedications, she has published research articles which can be seen at her Sinta, [Scopus](#) and [Google Scholar](#) profile.

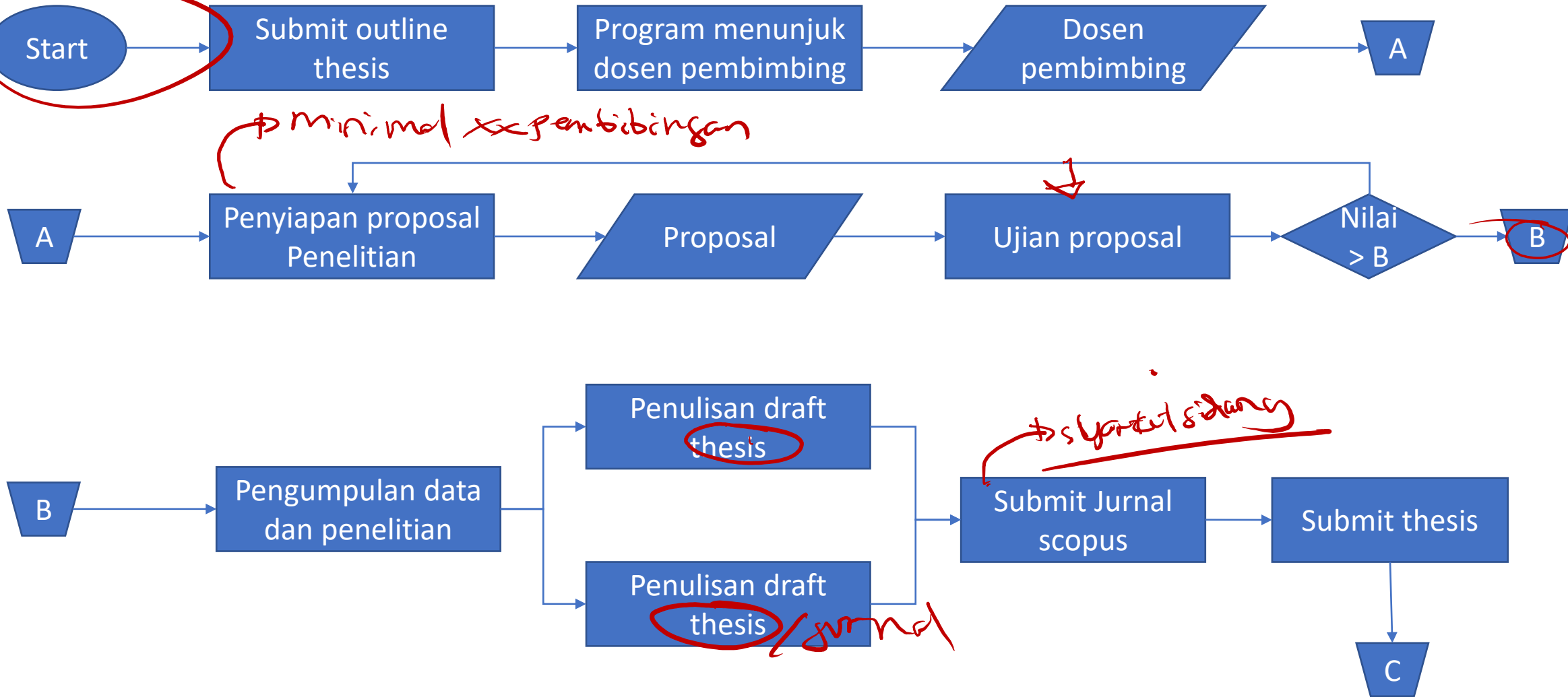
Area of Expertise: Humanitarian Logistics, Commercial Logistics, Warehousing, Inventory

Topik Penelitian

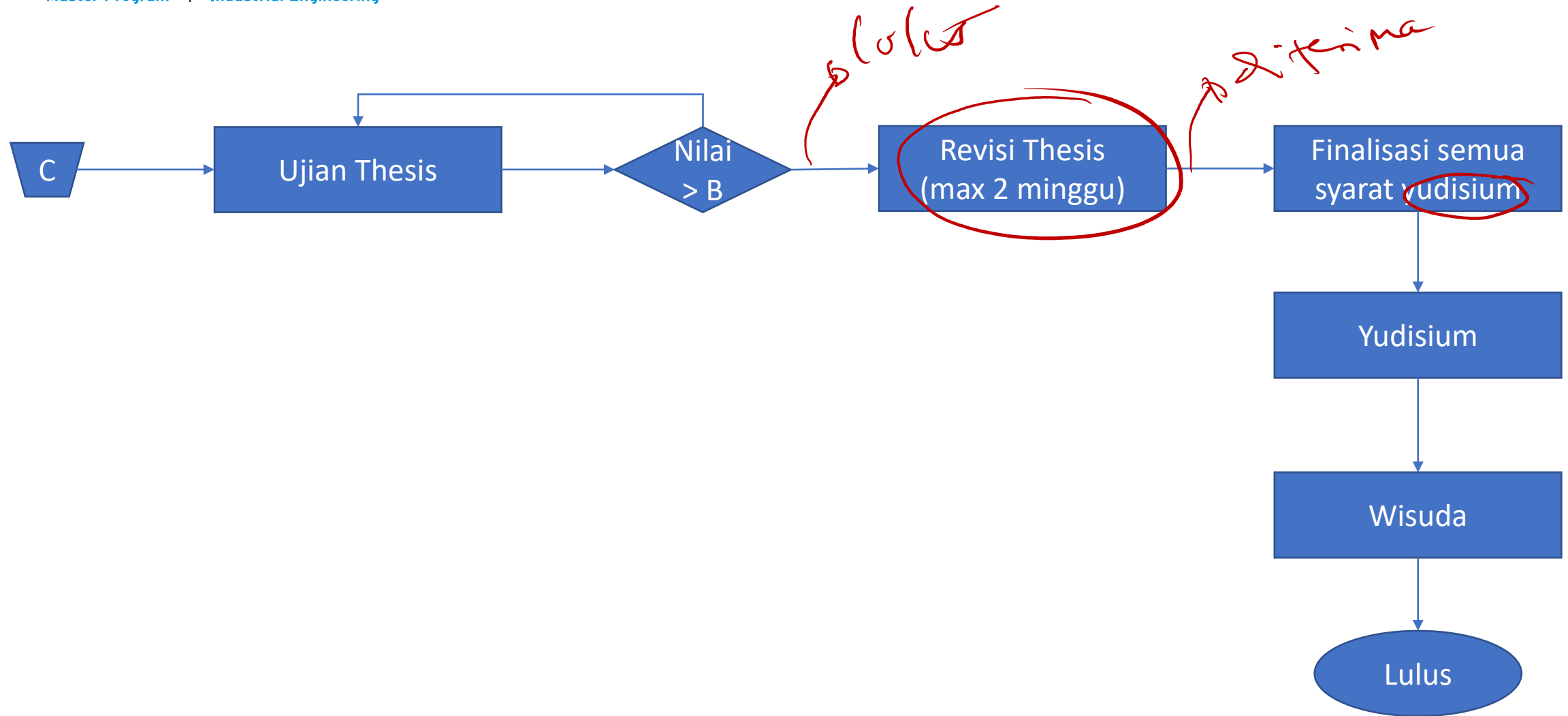
1. Supply chain engineering and modeling

Email: rienna.oktarina@binus.edu

Tahapan (1)



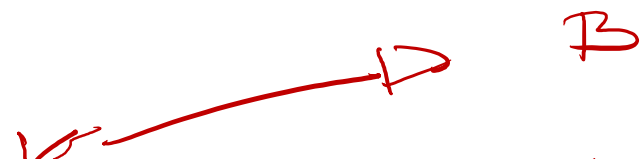

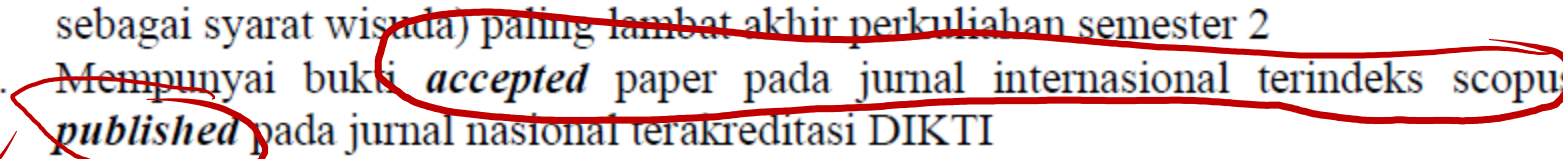
Tahapan (2)



Syarat kelulusan

Wisuda

Syarat Umum:

1. $IPK \geq 3,00$ ✓ 
2. Lulus ujian Tesis 
3. Menyelesaikan minimal 42 SKS (termasuk Tesis)
- ✓ 4. Telah lulus seluruh persyaratan mata kuliah yang tercantum dalam kurikulum yang berlaku bagi angkatanannya
- ✓ 5. Telah mengumpulkan *Hard Cover* Tesis, *Technical Report*, dan *Soft copy* Tesis yang berisi penulisan Tesis dan *Technical Report*, NDA & TOR bagi jalur *Internship Project* serta surat testimonial dari perusahaan
- ✓ 6. Score TOEFL **minimal 475** bagi yang belum memenuhi standard score minimum pada saat mendaftar menjadi mahasiswa, harus menyerahkan sertifikat score TOEFL terbaru sebagai syarat wisuda) paling lambat akhir perkuliahan semester 2
- ✓ 7. Mempunyai bukti **accepted** paper pada jurnal internasional terindeks scopus atau **published** pada jurnal nasional terakreditasi DIKTI 
- ✓ 8. Telah melunasi semua kewajiban pembayaran termasuk biaya wisuda

Peringkat kelulusan

Berdasarkan SK Keputusan Rektor Nomor 001A/SK/PERINGKAT KELULUSAN-UBN/I/2019.

Jenjang Studi : S2 (Reguler dan Online)

IPK	Lama Studi	Peringkat
3,91 – 4,00	Maksimal 3 semester	Summa Cum Laude
3,86 – 3,90	Maksimal 3 semester	Magna Cum Laude
3,75 – 3,85	Maksimal 3 semester	Cum Laude
Bagi Mahasiswa yang tidak memenuhi kriteria di atas, namun memenuhi kriteria di bawah ini :		
Lebih besar dari 3,50	-	High Merit/Sangat Memuaskan
Lebih Kecil dari atau sama dengan 3,50	-	Merit/Memuaskan

Selamat berjuang!

Syarat kelulusan
publikasi

submit

Review

3-6 bulan

Revisi

Accepted

publish

✓ Scopus

✓ national