Anik Nur Habyba [安妮可]

PROFESSIONAL SUMMARY

Since July 2019, I have been a highly motivated and dedicated lecturer in Industrial Engineering at Universitas Trisakti, Indonesia. In March 2020, I became a full-time lecturer, bringing with me a strong academic foundation, having earned a Master's degree in Agro-Industrial Engineering from IPB University (supported by the LPDP Affirmative Scholarship) and a Bachelor's degree in Agro-Industrial Technology from Brawijaya University (supported by the Bidikmisi Scholarship). I am currently a graduate of the Professional Engineer Program at Universitas Trisakti, supported by the Universitas Trisakti Lecturer Scholarship. I have demonstrated expertise in curriculum development and coordination for various courses, including Data Analytics, Data Mining, Multivariate Analysis, Applied Statistics, and Kansei Engineering. My research interests include Data Mining, Quality Engineering, Kansei Engineering, Applied Statistics, and Industrial Management. In addition to my leadership experience as Head of Quality Engineering Laboratory, I have been actively involved as a secretary in the faculty's quality assurance committee and the Master's program in Industrial Engineering. This active involvement in these committees has enabled us to make significant contributions to the development and improvement of our academic programs. Since September 2025, I have been a PhD student in the Department of Industrial Engineering and Management at Yuan Ze University, Taiwan.

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EDUCATION

PhD Student at Department of Industrial Engineering and Management | September 2025- Now

Yuan Ze University, Taoyuan, Taiwan

- Registered Courses, Semester (114-1): Service Systems Design, Experimental Design and Applications, Machine Learning and Its Applications
- Registered Courses, Semester (114-2): Artificial Intelligence and Its Applications, Decision Analysis, Data Mining, Usability Engineering
- Registered Courses, Semester (115-1): Big Data Analytics
- 2025 Ministry of Education (MoE) Elite Scholarship Program, Taiwan.

Professional Engineer Program | February-August 2025

Universitas Trisakti, Jakarta, Indonesia

- Project: Exploring Key Drivers of Employee Engagement Through Automotive Dealership Clustering
- Supervised by Assoc. Prof. Yuli Kurnia Ningsih
- GPA: 4 out of 4
- Universitas Trisakti Lecturer Scholarship

Master of Science in Agro-Industrial Technology | 2016-2018

IPB University, Bogor, West Java, Indonesia

- Master's Thesis: An Affective Design of E-commerce Website Content for SMEs Product Marketing Using Kansei Engineering Approach
- Supervised by Prof. Taufik Djatna and Assoc. Prof. Elisa Anggraeni
- GPA: 3.68 out of 4
- LPDP Affirmative Scholarship (a special track scholarship by the Indonesian Endowment Fund for Education (LPDP) for specific groups)

Bachelor's Degree in Agro-Industrial Technology | 2011-2015

Brawijaya University, Malang, East Java, Indonesia

- Undergraduate Thesis: Segmentation Analysis and Consumer Perception of Pasteurized Milk (Case Study on

"DAU Fresh Milk")

- Supervised by Assoc. Prof. Usman Effendi and Assoc. Prof. Siti Asmaul Mustaniroh
- GPA: 3.55 out of 4
- Bidikmisi Scholarship (a scholarship program by the Indonesian government for high-achieving students from disadvantaged backgrounds)

WORK EXPERIENCE

Full Time Lecturer | March 2020 - Now

Industrial Engineering Department, Faculty of Industrial Technology, Universitas Trisakti, Jakarta, Indonesia

1) **Course Coordinator**
   Data Analytics, Data Mining and Its Application, Multivariate Analysis, Probability and Theory, Kansei Engineering in Affective Design
2) **Head of Quality Engineering Laboratory (1st March 2023 – 31 August 2025)**
   Responsible for developing statistics and quality control practicum modules together with the head of the practicum. Ensure and support the development of students' final project topics in Quality and Reliability Engineering. Responsible for the entire laboratory operational process, including physical facilities, software, and training.
3) **Secretary of the Faculty Quality Assurance Team (23 January 2022 – 30 November 2025)**
   Responsible for assisting the head of quality assurance (Assoc. Prof. Triwulandari SD) in planning, implementing, monitoring, evaluating, and improving the quality assurance system at the faculty level to achieve the established quality standards.
4) **Secretary of Industrial Engineering, Master Study Program (1 September 2023 – 31 August 2025)**
   Responsible for assisting the head of the study program (Assoc. Prof. Rahmi Maulidya) in operational management, academic administration, and the smooth running of the master's study program activities

RESEARCH EXPERIENCE

University Internal Research Funding | 2020- Now

Universitas Trisakti, as the Lead Researcher

1) **Anik Nur Habyba**, Triwulandari Satitidjati Dewayana, Iveline Anne Marie, Dian Mardi Safitri, and Rahmi Maulidya. "Smart customer care in the manufacturing industry to enhance sustainable quality management". 2024.
2) **Anik Nur Habyba**, Triwulandari Satitidjati Dewayana, and Iveline Anne Marie. "Sustainable Quality Management Approach in Bag Manufacturing Using HyDAPI Methodology". 2023.
3) **Anik Nur Habyba**, and Triwulandari Satitidjati Dewayana. "Improving Employee Engagement and Predicting Branch Productivity at PT X Using Data Mining Approaches. 2022.
4) **Anik Nur Habyba**, Rina Fitriana, Dorina Hetharia, and Johnson Saragih. "Enhancing the Quality of Products X and Y Through Applying Six Sigma and the Quality Management-Cross-Industry Standard Process-Data Mining (QM-CRISP-DM) Framework". 2021.
5) **Anik Nur Habyba**, Triwulandari Satitidjati Dewayana, and Novia Rahmawati. "Applying the Kansei Engineering Approach to Classroom Design (A Case Study in the Industrial Engineering Department, Faculty of Industrial Technology, Universitas Trisakti)". 2020.

Publication

Journal Papers

1) Dian Mardi Safitri*, **Anik Nur Habyba**, Winnie Septiani, Nora Azmi, Bambang Tri Wardoyo, Toru Matsumoto. "Sustainable Occupational Safety and Health for the Environment and Education-Based Waste Management Center in Banyumas, Indonesia". Jurnal Kesehatan Lingkungan, vol. 18 no. 1si, June 2026, pp 129-137.
2) Marsya Muthiah Lazuardy, Elfira Febriani Harahap*, **Anik Nur Habyba**."User satisfaction analysis of an Innovation on Supply Loss (IOS) system in the commercial and trading sector using the PIECES–usability framework and binary logistic regression". Jurnal Industrial Servicess, vol. 11 no. 2, October

2025, pp 508-517.

3) Sanfransyul Arung Tasik, Rahmi Maulidya, Ika Wahyu Utami*, Dian Mardi Safitri, Novia Rahmawati, **Anik Nur Habyba**."Integrating ergonomic intervention and digital human modelling for posture improvement in welding tasks". Jurnal Industrial Servicess, vol. 11 no. 2, October 2025, pp 278-289.
4) **Anik Nur Habyba***, Dian Mardi Safitri, Novia Rahmawati, Indah Permata Sari, dan Ika Wahyu Utami. "How to Transform a Lecturer's Research Interest into A Student-Centered Learning Class? An Elective Course "Kansei Engineering in Affective Design". JJournal of Engineering Science and Technology Management (JES-TM), vol. 5 no. 2, September 2025, pp 407-422.
5) Gina Almas Nabiha, Rina Fitriana*, **Anik Nur Habyba**, Sania Mareta. "Proposed improvement of product support packaging material defects using the Cross-Industry Standard Process for Data Mining (CRISP-DM) approach". OPSI, vol. 18, no 1, Juni 2025, pp 70-90. (Sinta 2)
6) Tryantomo Lokhilmahful Palgunadi, Rina Fitriana*, **Anik Nur Habyba**, Yun-Chia Liang. "Optimizing Demand Forecasting Method with Support Vector Regression for Improved Inventory Planning". Journal Optimasi Sistem Industri, vol. 23, no. 2, January 2025, pp. 149-166. (Scopus Q4 & Sinta 1)
7) **Anik Nur Habyba***, Delfitriani, Triwulandari Satitidjati Dewayana, Debbie Kemala Sari, Emelia Sari, Indah Permata Sari. "Sustainable Marketing Strategy in The Remanufacturing Industry: A Soft Systems Methodology Approach". Business Review and Case Studies, vol. 5, no 3, December 2024, pp. 375-386. (Sinta 3)
8) Felice Graciela, Triwulandari Satitidjati Dewayana*, **Anik Nur Habyba**. "Enhancing customer satisfaction towards the service quality of Soekarno-Hatta International Airport using servqual and binary logistic regression". OPSI, vol. 17, no 2, December 2024, pp 338 - 354. (Sinta 2)
9) Azizah Nurul Hanifati, Nora Azmi*, **Anik Nur Habyba**. "Living room design using Kansei Engineering approach with toddler safety aspect". OPSI, vol. 17, no 2, December 2024, pp 388 – 402. (Sinta 2)
10) Resty Ayu Ramadani, Rina Fitriana*, **Anik Nur Habyba**, Yun-Chia Liang. "The Enhancing Quality Control of Packaging Product: A Six Sigma and Data Mining Approach". Journal Optimasi Sistem Industri, vol. 22, no. 2, December 2023, pp. 197-214. (Sinta 2)
11) Tania Theodora, Rina Fitriana, **Anik Nur Habyba***. "Quality Improvement of NH1X36B Pre-Printed Box with QM – CRISP DM Approach at PT X". Operations Excellence: Journal of Applied Industrial Engineering, vol. 13, no. 3, November 2021, pp 298-309. (Sinta 3)
12) Novia Rahmawati*, Pudji Astuti, Farhanah Rofifah, **Anik Nur Habyba**. "Affective Design of Food Delivery Order Packaging". International Journal of Engineering and Advanced Technology (IJEAT), vol. 10, no. 2, December 2020, pp 6-11.

Conference Proceedings and Presentations

1) **Anik Nur Habyba***, Emely Valencia Lam, Dian Mardi Safitri, Rahmi Maulidya, Triwulandari Satitidjati Dewayana, Iveline Anne Marie. "Demystifying Customer Satisfaction Drivers in Smart Customer Care Using Explainable AI for Sustainable Manufacturing Services". The 8th Asia Pacific Conference on Manufacturing Systems (APCOMS) and the 7th International Manufacturing Engineering Conference (IMEC) 2026. The conference will be held on Monday-Tuesday, July 27-28, 2026, at the Pullman Grand Central Bandung, Indonesia.
2) Novia Rahmawati*, Dian Mardi Safitri, **Anik Nur Habyba**, Indah Permata Sari. "Agricultural posture risks assessment in the harvesting process using AWBA". The 8th International Conference on Industrial, Mechanical, Electrical and Chemical Engineering 2023 (ICIMECE 2023). Lombok, Mataram. Indonesia
3) **Anik Nur Habyba***, Delfitriani, Triwulandari Satitidjati Dewayana, Debbie Kemala Sari, Emelia Sari, Indah Permata Sari. "Remanufacturing Division as Sustainable Marketing Strategy in Heavy Equipment Industry". ASEAN Business, Engineering, and Technology Symposium (ABEATS) 2022. Denpasar, Bali, Indonesia.
4) **Anik Nur Habyba***, Triwulandari Satitidjati Dewayana, Novia Rahmawati, Dinda Rhamanda. "An affective university classroom design formula based on kansei engineering approach". AIP Conf. Proc. 2680, 020149 (2023). Proceedings of the 4th Tarumanagara International Conference of the Applications of Technology and Engineering (TICATE) 2021.
5) Hikmah Fitriani Tamher, Johnson Saragih, **Anik Nur Habyba***. "Quality improvement on pipe production using Six Sigma and data mining in PT. FIP". AIP Conf. Proc. 2485, 120001 (2023). 13th International Seminar on Industrial Engineering and Management (ISIEM) 2021.
6) Ananda Kejora Rotty, Triwulandari Satitidjati Dewayana, **Anik Nur Habyba***. "Cross-Industry Standard

Process for Data Mining (CRISP-DM) Approach in Determining the Most Significant Employee Engagement Drivers to Sales at X Car Dealership". The 3rd Asia Pacific Conference on Industrial Engineering and Operations Management 2022.

7) Tiena Gustina Amran*, **Anik Nur Habyba**, Rane Arthur Indraputra. "Analysis of The Effect of Government Business Support Services And Absorptive Capacity Moderation on The SMEs Performance Using the Structural Equation Modeling (Case Study: STIP NTB Entrepreneurial Incubator)". The 3rd Asia Pacific Conference on Industrial Engineering and Operations Management 2022.
8) Intan Arizka, Dorina Hetharia, **Anik Nur Habyba***. "Quality Improvement Proposal of Spun Pile Using Six Sigma Method at PT. Adhi Persada Beton". International Conference Science and Engineering (ICSE-UIN-SUKA 2021).
9) **Anik Nur Habyba***, Rina Fitriana. "Improvement of insurance agents performance using data mining in OV agency". International Conference on Advanced Mechanical and Industrial Engineering 8-9 July 2020, Banten, Indonesia.
10) **Anik Nur Habyba***, Delfitriani, Taufik Djatna. "An affective design for jenang packaging in Indonesia". International Conference on Green Agro-industry and Bioeconomy 18–20 September 2018, Universitas Brawijaya, East Java, Indonesia.
11) **Anik Nur Habyba***, Taufik Djatna and Elisa Anggraeni. "An affective e-commerce design for SMEs product marketing based on kansei engineering". International Conference on Industrial and Systems Engineering (IConISE) 2017 29–30 August 2017, Denpasar, Bali, Indonesia.
12) **Anik Nur Habyba***, Taufik Djatna and Elisa Anggraeni. "A system analysis and design for SMEs product presentation on E-commerce website based on Kansei engineering (Case study: SMEs products of Ponorogo regency)". Proceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018. Kuching, Sarawak, Malaysia.

Manuscripts Under Revision or Review

1) **Anik Nur Habyba***, Triwulandari Satitidjati Dewayana, Iveline Anne Marie, Novia Rahmawati, and Riana Magdalena Silitonga. "Hybrid Defects Identification through E-commerce Reviews for Sustainable Quality Improvement". Engineering Journal 2025. Faculty of Engineering, Chulalongkorn University, Thailand. Under review.
2) Idri Anisa, Iveline Anne Marie, **Anik Nur Habyba***. "The Semma Approach for Enhancing Better Machine Maintenance Decisions in The Motorcycle Manufacturing Company". Journal of Advanced Manufacturing Technology 2025. Universiti Teknikal Malaysia Melaka, Malaysia. Accepted, Under Copyediting.
3) **Anik Nur Habyba***, Triwulandari Satitidjati Dewayana*, Ananda Kejora Rotty, Novia Rahmawati and Riana Magdalena Silitonga. "Exploring Key Drivers of Employee Engagement Through Automotive Dealership Clustering". Journal of Engineering and Technology for Industrial Applications (JETIA) 2025. Institute of Technology and Education Galileo of Amazon – ITEGAM, Brazil. Under review.

Event Committee:

1) Chairperson and Lead Question Designer (for the Competition), "Utilizing Data Mining for Quality Improvement in Remanufactured Product Decision". National Quality Engineering Competition (KRKTN VIII) 2022. The KRKTN VIII event was attended by 21 teams from 14 State Universities and 7 Private Universities in Indonesia, and the total prize was 27.5 million rupiah. This competition contains three rounds, which include questions related to the theory of statistical quality control, data mining, and case resolution with cooperation from the heavy equipment industry.
2) Lead Question Designer (for the Competition), "Quality Improvement with Data Mining for Sustainability". National Quality Engineering Competition (KRKTN VII) 2019. KRKTN VII was attended by 26 teams from 20 state and private universities in Indonesia, and the total prize was 26 million rupiah. This competition contains three rounds, which include questions related to the theory of statistical quality control, data mining, and case resolution with cooperation from the insurance service industry.
3) Student Paper Competition Jury, Industrial Engineering Competitions 2025 (IEC 2025). "Innovating for a Sustainable Future: Advancing Technology and Wellness for Global Impact". Universitas Trisakti.
4) Essay Competition Judges (High School), Industrial Engineering Competitions 2024 (IEC 2024).

"Implementation of Internet of Things to Improve Indonesian MSMEs". Universitas Trisakti.

EDITORIAL AND REVIEWER EXPERIENCE

Associate Editor

1) Journal Industrial Servicess (JISS) by the Department of Industrial Engineering, Faculty of Engineering, Sultan Ageng Tirtayasa University, Indonesia. (Sinta 2)
2) Jurnal Teknik Industri by the Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti, Indonesia. (Sinta 3, under reaccreditation)

Reviewer

1) Jurnal Agroindustri Halal by the Institute for Research and Community Services at Djuanda University, Indonesia. (Sinta 3)
2) Agroindustrial Technology Journal (ATJ) by the Department of Agroindustrial Technology, Universitas Darussalam Gontor, Indonesia. (Sinta 3)
3) Jurnal INTECH by the Industrial Engineering Study Program, Faculty of Engineering, Serang Raya University, Indonesia. (Sinta 3)
4) Jurnal Rekayasa Sistem Industri (JRSI) by Universitas Katolik Parahyangan, Indonesia. (Sinta 3)
5) The Ilomata International Journal of Management by the Yayasan Sinergi Kawula Muda, Indonesia. (Sinta 3)
6) Jurnal SENOPATI: Sustainability, Ergonomics, Optimization, and Application of Industrial Engineering by Industrial Engineering Department of Adhi Tama Institute of Technology Surabaya, Indonesia. (Sinta 4)
7) Journal of System Engineering and Management (JOSEAM) by the Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Indonesia.
8) Jurnal Pengabdian Kepada Masyarakat (PEKAMAS Polimedia) by Politeknik Negeri Media Kreatif, Indonesia.

REFERENCES

- Prof Dr. Eng. Taufik Djatna, Full Professor in Industrial and Systems Engineering. Dept of Agro-Industrial Technology, IPB University.
- Dr. Ir. Rina Fitriana, ST, MM, IPM, AseanEng, Head of Department Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti.

Remark:

Sinta (Science and Technology Index) is a web-based platform managed by the Indonesian Ministry of Education, Culture, Research, and Technology (Kemendikbudristek), Indonesia, to measure the scientific performance of Indonesian academics and journals. Sinta 1 represents the highest level and Sinta 5 the lowest among the indexed and accredited journals.