
Surat Tugas/Letter of Appointment

Nomor/
Number
Tanggal/
Date

ST/THS2/0918-A/AAO/IX/2020 – DiP/Rev. 01 (31 March 2021)

18 September 2020/ 18 September 2020

Penugasan Sebagai Pembimbing Utama/Pendamping Skripsi Mahasiswa S2 Semester Ganjil 2020/2021
Appointment of Thesis Advisor/Co-Advisor for Master's Degree Student(s) in Odd Semester 2020/2021

Fakultas Teknik & Teknologi Informasi/Faculty of Engineering & Information Technology

Dekan Fakultas Teknik dan Teknologi Informasi, Universitas Swiss German/
The Dean of Engineering and Information Technology Faculty of Swiss German University,

Menimbang/*Considering:*

1. Perkuliahan S2 semester 2 yg telah berakhir/*The lectures for semester 2 have finished.*
2. Persyaratan untuk mencapai gelar pasca sarjana/*Requirements for Master's Degree graduation.*

Memperhatikan/*Referring to:* Hasil penunjukan Dekan Fakultas Teknik dan Teknologi Informasi/*The appointment by the Dean of Engineering and Information Technology Faculty.*

Memutuskan/*Has Reached the Decision:*

1. Dengan ini menugaskan kepada dosen yang tercantum pada lampiran, sebagai Pembimbing Utama/Pendamping skripsi program Strata Dua (S2) mahasiswa yang tercantum pada lampiran dengan masa penugasan 21 September 2020 sampai dengan 11 Januari 2021/*Herewith gives the task to the lecturers as listed on the attachment to become Thesis Advisor/Co-Advisor for the Masters student(s) listed on the attachment with period of task starting from 21 September 2020 until 11 January 2021.*
2. Dosen yang bersangkutan harus melaksanakan tugas dan tanggung jawab sebaik-baiknya, sesuai dengan petunjuk pembimbingan skripsi dari SGU/*The appointed lecturer shall accomplish the task in responsible ways in line with the thesis guidelines and other regulations given by SGU.*

Terima kasih atas perhatian dan kerjasama Saudara/*Thank you for your attention and cooperation.*

Dekan/Dean,



Dr. Maulahikmah Galinium, S.Kom, M.Sc.
Dekan Fakultas Teknik dan Teknologi Informasi/
Dean of Engineering and Information Technology Faculty

Lampiran/*Attachment:*

Daftar Nama Pembimbing Utama, Pendamping dan Mahasiswa pada Semester Ganjil 2020/2021
List of Thesis Advisor, Co-Advisor and Student in Odd Semester 2020/2021.

1. Lampiran 1/*Attachment 1:* Program Studi Magister Teknik Informatika/*Study Program of Master of Information Technology*
2. Lampiran 2/*Attachment 2:* Program Studi Magister Teknik Mesin/*Study Program of Master of Mechanical Engineering*

Lampiran 2 Surat Tugas: ST/THS2/0918-A/AAO/IX/2020 – DiP/Rev.01 (31 March 2021)

Attachment 2 to the Letter of Appointment: ST/THS2/0918-A/AAO/IX/2020 – DiP/Rev.01 (31 March 2021)

*Revisi Lampiran Tertanggal/ Revision of the Attachment dated: 5 April 2021

Daftar Nama Pembimbing Utama/Pendamping Skripsi Pada Program Magister,
Program Studi Magister Teknik Mesin, Fakultas Teknik dan Teknologi Informasi,
pada 21 September 2020 – 11 January 2021

*List of The Thesis Advisor/Co-Advisor Master's Degree Program,
Study Program of Master of Mechanical Engineering, Faculty of Engineering & Information Technology,
in 21 September 2020 – 11 January 2021*

Daftar Pembimbing Utama / List of Advisor

Nr.	Nama Pembimbing Utama/ The Advisor Name	Status Dosen/ Lecturer's Status	Nama Mahasiswa/ Student's Name	NIM/ Student's ID	Judul Skripsi /Thesis Title
1	Dr. Eka Budiarto, S.T., M.Sc.	Dosen Tetap/ Homebase Lecturer	1. Hendra Kurniawan	2-1952-040	DIGITAL TRANSFORMATION FOR IMPROVE DEBT COLLECTION PROCESS ON SPARE PARTS TRANSACTION IN LEADING HEAVY EQUIPMENT COMPANY
			2. Henry Martawidjaja	2-1952-041	PROCUREMENT FRAMEWORK ANALYSIS AND EVALUATION OF E-PROCUREMENT IMPLEMENTATION ADOPTING USING UTAUT MODEL (CASE STUDY IN INDONESIA LEADING HEAVY EQUIPMENT COMPANY)
2	Dena Hendriana, B.Sc., S.M., Sc.D	Dosen Tetap/ Homebase Lecturer	1. Basuki Rachmat	2-1952-047	SAFETY AND HEALTH CAMPAIGN TO IMPROVE ENVIRONMENT OCCUPATIONAL SAFETY AND HEALTH IN INDONESIA LEADING DISTRIBUTOR HEAVY EQUIPMENT COMPANY
			2. Budi Mulyawanto	2-1952-026	IMPROVING INNOVATION MANAGEMENT IMPLEMENTATION AS PART OF THE CONSISTENT APPLICATION OF THE STRATEGIC FOR BUSINESS GROWTH
			3. Herryan Syahputra	2-1952-038	IMPROVE REUSABLE PART QUALITY TO PROLONG REMANUFACTURED PRODUCT LIFETIME FOR LEADING HEAVY EQUIPMENT REMANUFACTURING COMPANY IN INDONESIA
			4. Satriyo Widy Prasetyo	2-1952-034	INTEGRATING AUDIT SYSTEM OF AGC, ISO14001, ISO45001 TO IMPROVE IMPLEMENTATION OF THE MANAGEMENT SYSTEMS IN LEADING HEAVY EQUIPMENT COMPANIES
			5. Bakhtiar Burhan	2-1952-046	GREEN BUILDING ANALYSIS OF PT UNITED TRACTORS ON EXISTING BUILDING BASED ON THE LATEST RATING TOOLS GREEN BUILDING COUNCIL INDONESIA
			6. Egi Gumilar	2-1952-052	STUDY OF SOLAR PV POLICIES THAT HAVE AN IMPACT ON TECHNO-ECONOMIC, SOCIO-ENVIRONMENT, IN A LEADING HEAVY EQUIPMENT COMPANY IN INDONESIA
			7. Ferdinand Widjaja	2-1952-023	PREDICTIVE MAINTENANCE OF MINING EQUIPMENT IN INDONESIA LEADING HEAVY EQUIPMENT COMPANY
			8. Yohanes Pembaptis Agung Purwoko	2-1952-062	DEVELOPMENT AUTOMATIC SWITCHING CONTROLLER FOR SHIFTING DRIVE MODE IN PROTOTYPE HYBRID VEHICLE
			9. Elroy F.K.P Tarigan	2-1952-053	DESIGN AND DEVELOPMENT OF BATTERY MANAGEMENT SYSTEMS IN PASSENGER ELECTRIC VEHICLES PROTOTYPE
			10. Dodi Garinto	2-1952-056	ANALYSIS AND DESIGN OF MEDIUM VOLTAGE THREE-PHASE AC-DC POWER CONVERSION FOR WIND ENERGY SYSTEMS
3	Ary Syahriar, B.Sc., M.Sc., Ph.D	Dosen Tidak Tetap/ Non-Homebase Lecturer	Stefanus Diyan Panggayuh	2-1952-048	TO EXTEND BATTERY LIFE FOR ELECTRICAL SWITCHBOARD BY USING THREE STAGES CHARGING METHOD

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Nr.	Nama Pembimbing Utama / The Advisor Name	Status Dosen / Lecturer's Status	Nama Mahasiswa / Student's Name	NIM / Student's ID	Judul Skripsi / Thesis Title
4	Dr. Eng. Sumarsono, S.T., M.T.	Dosen Tidak Tetap / Non-Homebase Lecturer	1. Bayu Cahyono	2-1952-036	SUSTAINABLE TQM IMPLEMENTATION IN RELATIONSHIP WITH CUSTOMER SATISFACTION AND BUSINESS PERFORMANCE IN INDONESIAN REMANUFACTURING COMPANY.
			2. Daniela Dea Hapsari	2-1952-050	IMPROVING WASTE MANAGEMENT SYSTEM OF LEADING CONSTRUCTION FIRM IN INDONESIA: A STUDY IN NOTABLE HIGH RISE BUILDING PROJECT IN JAKARTA
			3. Mohammad Yoga Baskoro	2-1952-028	IMPROVING MAINTENANCE COST BY IMPLEMENTATION OF CUSTOMIZE MAINTENANCE METHOD IN LEADING INDONESIAN FORKLIFT COMPANY
			4. Nur Kamaarum Adiwida Hemas	2-1952-029	IMPROVING WAREHOUSE MANAGEMENT SYSTEM AT THE LARGEST HEAVY EQUIPMENT DISTRIBUTOR COMPANY IN INDONESIA WITH SIMULATION-BASED OPTIMIZATION APPROACH
			5. Yohanes Eka Prayuda	2-1952-049	DETERMINING INTERVENTION FOR BEHAVIOR-BASED SAFETY (BBS) IMPLEMENTATION IN BUILDING CONSTRUCTION PROJECT
			6. Albherd Ramadhan Putra	2-1952-017	IMPROVING MATERIAL EFFICIENCY ON CALENDERING PROCESS BY USING SIX SIGMA AND DEFINE MEASURE ANALYZE IMPROVE CONTROL (DMAIC) METHODS IN INDONESIAN LEADING TRUCK BUS BIAS TIRE MANUFACTURER
			7. Budy Ariyanto	2-1952-019	MPROVING WORK IN PROCESS QUALITY (BIAS CUTTING PROCESS) BY USING POKA-YOKE AND DEFINE MEASURE ANALYSIS IMPROVE AND CONTROL (DMAIC) METHOD IN LEADING MOTORCYCLE TIRE MANUFACTURING
			8. Moch. Fatchul Helmi	2-1952-014	IMPROVING THE SILICA STOCK LEVEL ON CONTROLLING RAW MATERIAL INVENTORIES USING THE PERIODIC REVIEW POWER APPROXIMATION METHOD IN INDONESIAN LEADING TIRE MANUFACTURER
			9. Hasanuddin	2-1952-043	REDUCING SCRAP OF CEMENT A3CM-05 PROCESS BY CHANGING THE MATERIAL COMPOSITION FORMULA USING THE QUALITY CONTROL CIRCLE METHOD IN INDONESIAN TIRE INDUSTRY
5	Edy Sofyan, B.Eng., M.Eng., Ph.D	Dosen Tidak Tetap / Non-Homebase Lecturer	1. Ahmad Anwari	2-1952-045	IMPROVING TALENT PERFORMANCES BY USING INTEGRATED LEARNING DEVELOPMENT PROGRAM IN INDONESIA LEADING HEAVY EQUIPMENT DISTRIBUTOR
			2. Teguh Setiono	2-1952-035	IMPACT OF INCREASING MECHANIC COMPETENCE THROUGH COMPETENCY BASED CURRICULUM TO IMPROVE PRODUCT SUPPORT PERFORMANCE IN LEADING INDONESIAN HEAVY EQUIPMENT COMPANIES
			3. Baladi	2-1952-021	IMPROVING OF THE MECHANIC QUALIFICATION STANDARD RELATED WITH CUSTOMER SATISFACTION AT LEADING HEAVY EQUIPMENT DISTRIBUTOR COMPANY IN INDONESIA
			4. Maryono	2-1952-030	IMPACT OF SERVICE ENGINEER DEVELOPMENT TO IMPROVE QUALITY OF TECHNICAL SERVICE INFORMATION REPORT OF HEAVY EQUIPMENT FAILURE
			5. Albertus Aan Dian Nugroho	2-1952-061	APPLICATION OF AN ARTIFICIAL NEURAL NETWORK MODEL TO PREDICT PARAMETER OF FRICTION STIR SPOT WELDING ON ALUMINUM SHEET
			6. Eko Ari Wibowo	2-1952-055	OPTIMIZATION WARPAGE DEFECTS OF PENCIL BOX BY USING FINITE ELEMENT ANALYSIS AND ARTIFICIAL NEURAL NETWORK
			7. Adhy Syaefudin	2-1952-051	COMPUTER VISION INSPECTION OF COLD-FLOW CASTING DEFECT WITH NEURAL NETWORK

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6	Dr. Ir. Gembong Baskoro, M.Sc.	Dosen Tetap / Homebase Lecturer	1. Anang Wahyu Wibowo	2-1952-024	IMPROVING THE PREDICTION AND ACCURACY of PARTS MARKETING PROMOTION PROGRAM FOR HEAVY EQUIPMENT SPARE PARTS BUSINESS THROUGH DIGITALIZATION APPROACH
			2. Yonta Wasfadhita	2-1952-033	ASSESSING SUSTAINABILITY IMPACT OF AUTONOMOUS HAUL SYSTEM IN INDONESIAN OPEN PIT COAL MINING COMPANY
			3. Edhie Sarwono	2-1952-027	THE IMPACT OF WORK FROM HOME DURING COVID-19 PANDEMIC TO HUMAN CAPITAL ORGANIZATIONAL EFFECTIVENESS IN INDONESIA LEADING HEAVY EQUIPMENT COMPANY
			4. Hanif Priyanto	2-1952-039	EFFECTIVE PERFORMANCE MANAGEMENT DESIGN ON REMOTE WORKFORCE ENVIRONMENT USING INTEGRATED SEVEN TOOLS OF QUALITY CONTROL ANALYSIS FOR TOP TALENT EMPLOYEE HUMAN ASSET VALUE (HAV) QUADRANT 1-4 IN UNITED TRACTORS
			5. Muhammad Hadiyanto	2-1952-037	ANALYSIS OF MINDSET AND BEHAVIOR IN EMPHASIZING LEADERSHIP ASPECTS BY IMPLEMENTATION CUSTOMER SUCCESS MANAGEMENT IN LEADING INDONESIAN HEAVY EQUIPMENT COMPANY
			6. Warno Santoso	2-1952-032	THE IMPACT OF LEAN ORGANIZATION TO EMPLOYEE COST IN IDONESIA LARGEST HEAVY EQUIPMENT DISTRIBUTOR COMPANY
			7. Ananda Tri Rizki	2-1952-018	ANALYSIS SUPPLY AND DEMAND BY HYBRID FORECASTING METHOD IN MANUFACTURER MOTORCYCLE TIRE
			8. Hartono	2-1952-012	IMPROVING QUALITY ON TIRE CURING PROCESS BY USING SIX SIGMA AND FAILURE MODE AND EFFECTS ANALYSIS (FMEA) METHOD IN INDONESIA LEADING TIRE MANUFACTURER
			9. Yanuar Anggit Eko Nugroho	2-1952-020	BUSINESS MODEL FOR STARTUP COMPANY BUSINESS MODEL FOR STARTUP COMPANY PT JET KOE INDONESIA (CASE: JETQ APPLICATION DEVELOPMENT)
			10. Bagus Prasetyo	2-1952-011	REDUCING DOWNTIME OF EXTRUDER MACHINE IN INDONESIA LEADING TIRE MANUFACTURING COMPANY
7	Dr Eng. Aditya Tirta Pratama, S.Si, M.T.	Dosen Tetap / Homebase Lecturer	1. Steven Liang	2-1952-042	IMPROVING DAILY TOTAL COMPLETE SHIPMENT BY USING SYSTEM DYNAMICS SIMULATION IN AN INDONESIAN CAR SPARE PARTS MANUFACTURER
			2. Ali Firmansyah	2-1952-010	IMPROVEMENT PUT AWAY PROCESS WITH CLASS-BASED AND DEDICATED-BASED STORAGE IN SPARE PART WAREHOUSE PT TIRE INDONESIA
			3. Muhammad Mushlih Fadlulloh	2-1952-015	ENHANCING MAINTENANCE MANAGEMENT SYSTEM USING RELIABILITY CENTERED MAINTENANCE (RCM) CASE STUDY PT. MOTORCYCLE TIRE INDONESIA
			4. Iwan Kendarwan Kaldjat	2-1952-016	A STUDY ON SENSIBLE EXCISE POLICY BY CONSIDERING ACCEPTABLE INDUSTRY VOLUME, GOVERNMENT REVENUE AND EMPLOYMENT FOR HAND MADE KRETEK CIGARETTES
			5. Dedi Emawan	2-1952-022	DEVELOPING TOOLS FOR MEASURING PERFORMANCE OF GAS ENGINE POWER PLANTS: A CASE STUDY AT LEADING MEDIUM ENERGY COMPANY IN INDONESIA

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8	Dr. Tanika D. Sofianti S.T., M.T.	Dosen Tetap / Homebase Lecturer	1. Hermawan Aji Utomo	2-1952-013	IMPROVING QUALITY OF MIXTURE PROCESS BASED ON MACHINE MANAGEMENT FOR REWORK ON RUBBER COMPOUNDING USING ANALYTICAL HIERARCHY PROCESS (AHP) APPROACH IN INDONESIAN LEADING TIRE MANUFACTURER
			2. Prince Sibarani	2-1952-031	IMPROVING THE OVERALL EQUIPMENT EFFECTIVENESS (OEE) OF DRUM TESTING MACHINE IN LABORATORY OF TIRE MANUFACTURING USING FMEA AND PFMEA
			3. Aloysius Sigit Haryono	2-1952-001	APPLICATION OF HUMAN FACTORS ANALYSIS AND CLASSIFICATION SYSTEM (HFACS) IN PRIORITIZING FLIGHT SAFETY RECOMMENDATIONS: A CASE STUDY AT WAMENA AIRPORT
9	Dr. Ir. Hanny J Berchmans, M.SC.	Dosen Tetap / Homebase Lecturer	1. Paulus Gagat Charisma Arwidhiatma	2-1952-009	DESIGN AND DEVELOP AN OPEN-SOURCES PORTABLE ELECTRIC PUMP EMERGENCY RESUSCITATOR
			2. Suhartinah	2-1952-059	DEVELOPMENT MONITORING AND PID CONTROL OF AN ENVIRONMENTAL TESTING CHAMBER USING NODE RED
			3. Andreadie Wicaksono	2-1952-060	DESIGN AND DEVELOPMENT BODY TEMPERATURE SENSOR FOR ATTENDANCE MACHINE AND SECURITY GATE
			4. Fuad Widiatmoko	2-1952-008	COMPUTER VISION AND DEEP LEARNING APPROACH FOR SOCIAL DISTANCING DETECTION DURING COVID-19 PANDEMIC
10	Dr. Widi Setiawan	Dosen Tidak Tetap / Non-Homebase Lecturer	1. Rahayu Budi Prahara	2-1952-058	OPTIMIZATION ELECTRICAL CURRENT OF THE SPOT TIG WELDING ON THE TENSILE STRENGTH OF MATERIAL MILD STEEL SPCG 250 USING FUZZY LOGIC METHOD
			2. Yoki Andriawan Ramdan	2-1852-006	DEVELOPMENT OF EMBEDDED IMAGE PROCESSING TO CLASSIFY, DETERMINE AND CONTROL NUTRIENT DEFICIENCY OF PLANTATION IN HYDROPONIC SYSTEM
11	Dr. Ir. Henry Nasution	Dosen Tetap / Homebase Lecturer	1. Stenli Octavian Eridheni	2-1952-054	IMPLEMENTATION OF MICROCONTROLLER IN LUBRICANT VISCOSITY MEASUREMENT TOOL
			2. Neilinda Novita Aisa	2-1952-057	THE EFFECT OF INJECTION PARAMETER ON ACRYLONITRILE BUTADIENE STYRENE (ABS) PRODUCTS USING FUZZY LOGIC SYSTEM
			3. Martinus Chorda Adi Trisnanto	2-1952-063	OPTIMIZATION CUTTING PARAMETERS ON TURNING PROCESS TO INCREASING SURFACE ROUGHNESS SKT4 MATERIAL WITH TAGUCHI METHOD

Daftar Pembimbing Pendamping / List of Co-Advisor

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1	Dr. Ir. Mohammad Amin Soetomo, M.Sc.	Dosen Tetap / Homebase Lecturer	1. Hendra Kurniawan	2-1952-040	DIGITAL TRANSFORMATION FOR IMPROVE DEBT COLLECTION PROCESS ON SPARE PARTS TRANSACTION IN LEADING HEAVY EQUIPMENT COMPANY
			2. Henry Martawidjaja	2-1952-041	PROCUREMENT FRAMEWORK ANALYSIS AND EVALUATION OF E-PROCUREMENT IMPLEMENTATION ADOPTING USING UTAUT MODEL (CASE STUDY IN INDONESIA LEADING HEAVY EQUIPMENT COMPANY)
			3. Basuki Rachmat	2-1952-047	SAFETY AND HEALTH CAMPAIGN TO IMPROVE ENVIRONMENT OCCUPATIONAL SAFETY AND HEALTH IN INDONESIA LEADING DISTRIBUTOR HEAVY EQUIPMENT COMPANY

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			3. Satriyo Widy Prasetyo	2-1952-034	INTEGRATING AUDIT SYSTEM OF AGC, ISO14001, ISO45001 TO IMPROVE IMPLEMENTATION OF THE MANAGEMENT SYSTEMS IN LEADING HEAVY EQUIPMENT COMPANIES
			4. Daniela Dea Hapsari	2-1952-050	IMPROVING WASTE MANAGEMENT SYSTEM OF LEADING CONSTRUCTION FIRM IN INDONESIA: A STUDY IN NOTABLE HIGH RISE BUILDING PROJECT IN JAKARTA
			5. Mohammad Yoga Baskoro	2-1952-028	IMPROVING MAINTENANCE COST BY IMPLEMENTATION OF CUSTOMIZE MAINTENANCE METHOD IN LEADING INDONESIAN FORKLIFT COMPANY
			6. Moch. Fatchul Helmi	2-1952-014	IMPROVING THE SILICA STOCK LEVEL ON CONTROLLING RAW MATERIAL INVENTORIES USING THE PERIODIC REVIEW POWER APPROXIMATION METHOD IN INDONESIAN LEADING TIRE MANUFACTURER
3	Dena Hendriana, B.Sc., S.M., Sc.D	Dosen Tetap / Homebase Lecturer	1. Bayu Cahyono	2-1952-036	SUSTAINABLE TQM IMPLEMENTATION IN RELATIONSHIP WITH CUSTOMER SATISFACTION AND BUSINESS PERFORMANCE IN INDONESIAN REMANUFACTURING COMPANY.
			2. Teguh Setiono	2-1952-035	IMPACT OF INCREASING MECHANIC COMPETENCE THROUGH COMPETENCY BASED CURRICULUM TO IMPROVE PRODUCT SUPPORT PERFORMANCE IN LEADING INDONESIAN HEAVY EQUIPMENT COMPANIES
			3. Baladi	2-1952-021	IMPROVING OF THE MECHANIC QUALIFICATION STANDARD RELATED WITH CUSTOMER SATISFACTION AT LEADING HEAVY EQUIPMENT DISTRIBUTOR COMPANY IN INDONESIA
			4. Maryono	2-1952-030	IMPACT OF SERVICE ENGINEER DEVELOPMENT TO IMPROVE QUALITY OF TECHNICAL SERVICE INFORMATION REPORT OF HEAVY EQUIPMENT FAILURE
			5. Iwan Kendarwan Kaldjat	2-1952-016	A STUDY ON SENSIBLE EXCISE POLICY BY CONSIDERING ACCEPTABLE INDUSTRY VOLUME, GOVERNMENT REVENUE AND EMPLOYMENT FOR HAND MADE KRETEK CIGARETTES
			6. Yanuar Anggit Eko Nugroho	2-1952-020	BUSINESS MODEL FOR STARTUP COMPANY BUSINESS MODEL FOR STARTUP COMPANY PT JET KOE INDONESIA (CASE: JETQ APPLICATION DEVELOPMENT)
			7. Aloysius Sigit Haryono	2-1952-001	APPLICATION OF HUMAN FACTORS ANALYSIS AND CLASSIFICATION SYSTEM (HFACS) IN PRIORITIZING FLIGHT SAFETY RECOMMENDATIONS: A CASE STUDY AT WAMENA AIRPORT
			8. Stefanus Diyan Panggayuh	2-1952-048	TO EXTEND BATTERY LIFE FOR ELECTRICAL SWITCHBOARD BY USING THREE STAGES CHARGING METHOD
			9. Albertus Aan Dian Nugroho	2-1952-061	APPLICATION OF AN ARTIFICIAL NEURAL NETWORK MODEL TO PREDICT PARAMETER OF FRICTION STIR SPOT WELDING ON ALUMINUM SHEET

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4	Dr. Eng. Sumarsono, S.T., M.T.	Dosen Tidak Tetap/Non-Homebase Lecturer	1. Anang Wahyu Wibowo	2-1952-024	IMPROVING THE PREDICTION AND ACCURACY OF PARTS MARKETING PROMOTION PROGRAM FOR HEAVY EQUIPMENT SPARE PARTS BUSINESS THROUGH DIGITALIZATION APPROACH
			2. Edhie Sarwono	2-1952-027	THE IMPACT OF WORK FROM HOME DURING COVID-19 PANDEMIC TO HUMAN CAPITAL ORGANIZATIONAL EFFECTIVENESS IN INDONESIA LEADING HEAVY EQUIPMENT COMPANY
			3. Ahmad Anwari	2-1952-045	IMPROVING TALENT PERFORMANCES BY USING INTEGRATED LEARNING DEVELOPMENT PROGRAM IN INDONESIA LEADING HEAVY EQUIPMENT DISTRIBUTOR
			4. Hermawan Aji Utomo	2-1952-013	IMPROVING QUALITY OF MIXTURE PROCESS BASED ON MACHINE MANAGEMENT OF REWORK ON RUBBER COMPOUNDING USING ANALYTICAL HIERARCHY PROCESS (AHP) APPROACH IN INDONESIAN LEADING TIRE MANUFACTURER
			5. Hartono	2-1952-012	IMPROVING QUALITY ON TIRE CURING PROCESS BY USING SIX SIGMA AND FAILURE MODE AND EFFECTS ANALYSIS (FMEA) METHOD IN INDONESIA LEADING TIRE MANUFACTURER
			6. Steven Liang	2-1952-042	IMPROVING DAILY TOTAL COMPLETE SHIPMENT BY USING SYSTEM DYNAMICS SIMULATION IN AN INDONESIAN CAR SPARE PARTS MANUFACTURER
5	Dr. Ir. Hanny J Berchmans, M.Sc	Dosen Tetap/ Homebase Lecturer	1. Bakhtiar Burhan	2-1952-046	GREEN BUILDING ANALYSIS OF PT UNITED TRACTORS ON EXISTING BUILDING BASED ON THE LATEST RATING TOOLS GREEN BUILDING COUNCIL INDONESIA
			2. Egi Gumilar	2-1952-052	STUDY OF SOLAR PV POLICIES THAT HAVE AN IMPACT ON TECHNO-ECONOMIC, SOCIO-ENVIRONMENT, IN A LEADING HEAVY EQUIPMENT COMPANY IN INDONESIA
			3. Stenli Octavian Eridheni	2-1952-054	IMPLEMENTATION OF MICROCONTROLLER IN LUBRICANT VISCOSITY MEASUREMENT TOOL
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6	Dr. Aditya Tirta Pratama, S.Si, M.T.	Dosen Tetap/ Homebase Lecturer	1. Nur Kamaarum Adiwida Hemas	2-1952-029	IMPROVING WAREHOUSE MANAGEMENT SYSTEM AT THE LARGEST HEAVY EQUIPMENT DISTRIBUTOR COMPANY IN INDONESIA WITH SIMULATION-BASED OPTIMIZATION APPROACH
			2. Alberhd Ramadhan Putra	2-1952-017	IMPROVING MATERIAL EFFICIENCY ON CALENDERING PROCESS BY USING SIX SIGMA AND DEFINE MEASURE ANALYZE IMPROVE CONTROL (DMAIC) METHODS IN INDONESIAN LEADING TRUCK BUS BIAS TIRE MANUFACTURER
			3. Prince Sibarani	2-1952-031	IMPROVING THE OVERALL EQUIPMENT EFFECTIVENESS (OEE) OF DRUM TESTING MACHINE IN LABORATORY OF TIRE MANUFACTURING USING FMEA AND PFMEA
			4. Hasanuddin	2-1952-043	REDUCING SCRAP OF CEMENT A3CM-05 PROCESS BY CHANGING THE MATERIAL COMPOSITION FORMULA USING THE QUALITY CONTROL CIRCLE METHOD IN INDONESIAN TIRE INDUSTRY
7	Dr. Tanika D. Sofianti S.T., M.T.	Dosen Tetap/ Homebase Lecturer	1. Budy Ariyanto	2-1952-019	MPROVING WORK IN PROCESS QUALITY (BIAS CUTTING PROCESS) BY USING POKA-YOKE AND DEFINE MEASURE ANALYSIS IMPROVE AND CONTROL (DMAIC) METHOD IN LEADING MOTORCYCLE TIRE MANUFACTURING
			2. Ali Firmansyah	2-1952-010	IMPROVEMENT PUT AWAY PROCESS WITH CLASS-BASED AND DEDICATED-BASED STORAGE IN SPARE PART WAREHOUSE PT TIRE INDONESIA

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			2. Dedi Emawan	2-1952-022	DEVELOPING TOOLS FOR MEASURING PERFORMANCE OF GAS ENGINE POWER PLANTS: A CASE STUDY AT LEADING MEDIUM ENERGY COMPANY IN INDONESIA
			3. Bagus Prasetyo	2-1952-011	REDUCING DOWNTIME OF EXTRUDER MACHINE IN INDONESIA LEADING TIRE MANUFACTURING COMPANY
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**Application of Human Factors Analysis and Intervention in Structuring KNKT's
Recommendations: A Case Study of Wamena Airport Air Accidents**

By

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MASTER'S DEGREE
in

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Wamena airport experienced accidents in 2002, 2008, 2009, 2013, 2015, and 2016. All accidents were cargo flights and in approach and landing flight phases. As the Swiss Cheese concept accident happened when errors penetrated safety defenses' layers in straight line. Structuring KNKT's investigations, under HFACS framework to understand the human factor failures type and HFIX strategy to close the failures by applying the recommendations, need to be done in air accident investigation. Prioritizing the implementation's recommendations using AHP, eleven aviation experts and practitioners were questioned in this study, when failure intervened by two or more interventions. There were layers without any failures in accident 2008, 2013, and 2016. Accident in 2016 has no recommendation due operators' safety actions were considered relevant to block failures. Accidents in 2002, 2009, 2013, and 2015 have failure which intervened by two or more recommendations and AHP was used to prioritize the intervention. There were failures remain open in accident 2002, 2009, 2013, and 2016. Repetitive failure of repetitive accidents in 2002, 2009, 2013, 2015, and 2016 is un-stabilized approach and has not been blocked with effective interventions. HFACS and HFIX are useful to framework the accident investigation, preventing similar accident happened in the future.

Keywords: HFACS, Swiss Cheese, HFIX, AHP, Un-Stabilized Approach.

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DEDICATION

I dedicate this works for the Aviation Safety of Indonesia

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I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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**A STUDY ON SENSIBLE EXCISE POLICY BY CONSIDERING
ACCEPTABLE INDUSTRY VOLUME, GOVERNMENT REVENUE AND
EMPLOYMENT FOR HAND MADE *KRETEK* CIGARETTES**

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MASTER'S DEGREE
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Tobacco industry in Indonesia has been contributing to Indonesia Economy and is currently contributing to the government revenue in the range of 8% – 9%. During the past 5 years the government has increased excise higher than inflation, and in 2019 the increase is the highest in the history of the tobacco industry. Due to the excessive increase, the excise department has predicted the decline in industry volume of 15% in 2021 (this study was done, before the decline released by the government). The purpose (objective) of the thesis is to study a scenario on how to balance: government revenue, industry volume and employment. System dynamics is used as methodology to analyze a complex policy situation. The methodology translates correlation among all the aspects that influenced the policy (Government Revenue, Employment, and Industry Volume) and being used in this thesis. The study has found that for handmade cigarettes (SKT), the government has implemented over-protective policy that expected to give positive impacts the segment. The Machine-made segments (SKM and SKM) are impacted by the over-protective policy. The industry sustainability will be impacted by over protection policy for SKT, considering impact to the other segments. SKT is only 20% of the market share.

Keywords: Excise, SKT (Hand-Made Clove Cigarette), SKM (Machine-Made Kretek Cigarette), SPM (Machine-Made White Cigarette) System Dynamics,

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DEDICATION

I dedicate this work to Aldwin Kendarwan and Rinaldo Kendarwan (my beloved sons) with the love that my wife (Desi Kendarwan) and I have for both sons.

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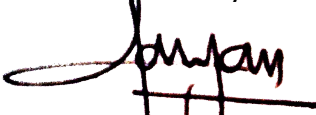
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ABSTRACT

IMPACT OF SERVICE ENGINEER DEVELOPMENT TO IMPROVE QUALITY OF TECHNICAL SERVICE INFORMATION REPORT OF HEAVY EQUIPMENT FAILURE

By

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Heavy equipment is a capital good, high performance and reasonable costs are highly demanded. Repetitive technical problem as equipment failure will decrease performance and increase cost. It is not only fixed but needs to be analyzed and reported to get a final solution. Main problem of low-quality score of Technical Service Information (TSI) report cannot provide data and information for failure analysis to find root causes, determining conclusions, and recommending the final solution. This study aims to improve the quality score of Technical Service Information report. Standardization of documents to capture and record failure data in the field and TSI report guidance was developed referred to problems existed and manufacture standardization. Transfer of learning on standardization and guidance used a learning framework 70:20:10. Comparative analysis of the TSI quality score before and after this study became a measure of the impact on this development. The result of this study is the development of Service Engineers with a 70:20:10 pattern, on standardization of TSI Report and capturing field failure data has a good impact in increasing quality score of the TSI report Service Engineer. The quantity of qualified report was also significantly improved from 32% to 92%.

Keywords: *Heavy Equipment, Quality Failure Report, Development Competencies, Learning Framework 70:20:10.*

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DEDICATION

I dedicate this works for the advancement of life.

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I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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IMPLEMENTATION OF THE MANAGEMENT SYSTEMS IN LEADING
HEAVY EQUIPMENT COMPANIES

By

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MASTER'S DEGREE
in

MASTER OF MECHANICAL ENGINEERING - ENGINEERING MANAGEMENT
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ABSTRACT

**INTEGRATING AUDIT SYSTEM OF AGC, ISO14001, ISO45001 TO IMPROVE
IMPLEMENTATION OF THE MANAGEMENT SYSTEMS IN LEADING
HEAVY EQUIPMENT COMPANIES**

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In running a business in a company, a management system is needed to determine every company's decision making by considering environmental protection and development, occupational safety and health. By applying AGC (occupational safety and health and environment), ISO 14001 (Environment), ISO 45001 (occupational safety and health) and other management systems. With so many management systems implemented by companies, there is a need for integration between management systems, especially during audits.

With the existence of an integrated internal audit tool, it can be more effective and efficient in running a management system that is widely implemented. Duplication of work and documents can be avoided in conducting internal audits. Therefore, it is necessary to have an integrated internal audit tool for readiness to conduct an audit from external parties.

Keywords: Management System, Audit, Integration, AGC, ISO 14001, ISO 45001

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DEDICATION

I dedicate this research to my family (especially for my wife Maya and my son Barra)
and PT United Tractors Tbk

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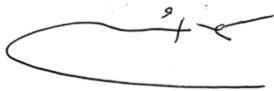
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STATEMENT BY THE AUTHOR

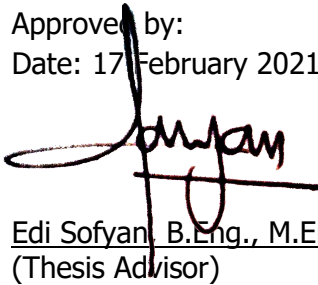
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I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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IMPACT OF INCREASING MECHANIC COMPETENCE THROUGH
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PERFORMANCE IN LEADING INDONESIAN HEAVY EQUIPMENT
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IMPACT OF INCREASING MECHANIC COMPETENCE THROUGH COMPETENCY BASED CURRICULUM TO IMPROVE PRODUCT SUPPORT PERFORMANCE IN LEADING INDONESIAN HEAVY EQUIPMENT COMPANIES

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The availability and readiness of heavy equipment depends on the level of product support. Product support as after sales service is important for customers to ensure that heavy equipment purchased is always ready for use and produces optimal production. Leadtime and mechanic speed in solving problems that occur in equipment and the so-called On Time in Full Solution (OTIF Solution) affects the usability and productivity of equipment. Performance OTIF Solution affects Product Support Performance and this affects the level of customer satisfaction. The development of mechanic competencies through competency-based training and problems in the field with reference to the Special Work Competency Standards is a strategy to increase the ability and speed of mechanics to solve problems that occur in machines in order to get good OTIF Solution performance. This research aims to determine the impact of increasing competence. mechanic through training with a competency-based curriculum on product performance support. This research was conducted by providing training with the blended learning method with training modules for machines with under-target OTIF Solution performance. The results showed that after mechanics received training, the OTIF Solution increased from the previous 2 years. namely 89% and 88% below the target of 90% to 93%.

Keywords: Heavy Equipment, Product Support, On Time in Full Solution, Competency Based Curriculum, Specific Work Competency Standards, Training Need Analysis, Blended Learning.

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DEDICATION

I dedicated this research for My Family & Corporate University – United Tractors.

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