PROPOSAL OF COMMUNITY SERVICE

WASTE ELIMINATION TO INCREASE PRODUCTIVITY IN SMALL MEDIUM ENTERPRISES KEMBANGAN WEST JAKARTA

Team Members:
Dr. Ir. Zulfa Fitri Ikatrinasari, MT NIDN. 0307037202
Aifrid Agustina, ST. MSi NIDN. 0324087503
Dr. Kosasih, SE. MM. NIDN. 0322057004

FIELD OF INDUSTRIAL ENGINEERING SCIENCE
UNIVERSITAS MERCU BUANA
2020
VALIDITY SHEET

1. a. Title : WASTE ELIMINATION TO INCREASE PRODUCTIVITY IN SMALL MEDIUM ENTERPRISES KEMBANGAN WEST JAKARTA
   b. Previous Research Title :

2. Chief Executive
   a. Full name : Dr. Ir. Zulfa Fitri Ikatrinasari, MT
   b. NIDN : 0307037202
   c. Functional : Associate Professor
   d. Faculty / Study Program : Faculty of Engineering / Industrial Engineering
   e. Mobile phone number : 08119444609
   f. Email Address (e-mail) : zulfafitri@gmail.com

3. Member of the Proposal Team
   a. Number of Members : 2
   b. Name of Member I : Aifrid Agustina, ST. MSi
   c. Name of Member II : Dr. Kosasih, SE. MM.

4. College student
   a. Number of students : -
   b. Name of Student I : Ahmad Bagas Mudhakoh NIM 41618120041
   c. Name of Student II : Aryo Bagas Wicaksono NIM 41618110107

5. Location of Activity
   a. Village / District : Kembangan Utara/Kembangan
   b. Regency / City : Jakarta Barat
   c. Province : DKI Jakarta
   d. Distance to location (km) : 3 km

6. Output produced : Increasing competitiveness and application of science and technology

7. Project Partner : Universiti Pendidikan Sultan Idris Malaysia

8. Time period : 5 Bulan

9. Costs required
   a. Source from PPM UMB : Rp. 7.500.000,-
   b. Source of funds from partners (in kind) : Rp. 4.000.000,-
   c. total : Rp. 11.500.000,-

   Jakarta, 3 November 2020

Approved,
Leader of Community Service Group      Team Leader,

Dr. Zulfa Fitri Ikatrinasari, MT.
NIP. 113720381

Certified by,
Dean of the Faculty of Engineering

Dr. Ir. Mawardi Amin, MT.
NIP. 192670076

Dr. Zulfa Fitri Ikatrinasari, MT.
NIDN. 0307037202

Dr. Inge Hutagalung, M.Si
NIP. 1 1359 0380
ABSTRACT

Productivity can increasing through eliminating waste, with a low cost, the company can reduce selling prices which will further increase market opportunities. Waste identification itself is a tool used to achieve lean industries, also known as lean manufacturing. This requires knowledge and skills in identifying and eliminating waste for management and employees in the Kembangan sub-district. Green manufacturing is a method in manufacturing to minimize/eliminate waste and pollution through product and process design with the main objective being sustainable. This service activity aims to provide knowledge, understanding and skill of the eliminate waste in small industry.

Key words: lean manufacturing, green manufacturing, Kembangan-West Jakarta.
# TABLES OF CONTENTS

Validity Sheet........................................................................................................... ii
Abstract.................................................................................................................... iii
Table of Contents ..................................................................................................... iv

**CHAPTER I INTRODUCTION** ................................................................. 1
1.1. Situation Analysis.............................................................................................. 1
1.2. Purpose of Activities ....................................................................................... 2
1.3. Benefits............................................................................................................. 3

**CHAPTER II TARGET DAN OUTPUT** ........................................... 4

**CHAPTER III IMPLEMENTATION METHOD** .................................... 5
3.1. Implementation Method .................................................................................. 5
3.2. Preparation ..................................................................................................... 5
3.3. Material Assistance ....................................................................................... 5
3.4. Evaluation Method ......................................................................................... 6

**CHAPTER IV BUDGET AND SCHEDULE** .................................... 7
4.1. Budget Detail ................................................................................................ 7
4.2. Schedule of Activity ..................................................................................... 8

REFERENCES......................................................................................................... 9

**APPENDIX CURRICULUM VITAE**

CHAPTER I. INTRODUCTION

1.1. Situation Analysis

The home industry or small and medium industry (IKM) has an important role that is directly, able to boost regional income, become a driver of economic activity that is able to absorb labor, and reduce poverty. In accordance with the goals of Nawacita, SMIs as the backbone of the economy, SMIs are expected to be able to realize economic independence, so as to be able to develop regions and villages. Based on data from the Ministry of Industry, it states that in 2016, SMIs in Indonesia grew to reach 165,983 units, an increase of 4.5 percent compared to 2015 and have absorbed a workforce of 350,000 people (Julianto, 2016). In addition, SMEs are also able to absorb the most labor compared to other sectors. Absorption of labor in the non-oil sector (food, crafts, clothing, etc.) at the beginning of 2016 reached 97.22 percent. Considering the important role of SMIs, therefore, the government strives to always try to improve the competitiveness of SMEs business through coaching and revitalization programs.

Many factors affect the stages of the development of SMIs in Indonesia. Some things that were reviewed to be the cause of the weak development of SMIs according to Tambuan (2002) cited by Wiratech (2015) are the limitations of human resources. Human resources is a serious obstacle for SMEs, especially in the aspects of management, production techniques or product innovation. Lack of expertise in production and management techniques will have an impact on the low efficiency, productivity, and cost effectiveness in product / service business activities.

There is one concept that is known to help improve efficiency, productivity, and cost effectiveness in product / service business activities. This term is called Seven waste reduction. Seven waste is one of the concepts of production control to maximize output and minimize costs (cost effectiveness) by identifying activities / activities that are not necessary in a series of production / service processes. Seven wastes originated from Japan, which was later developed into a concept by Toyota Chief Engineer Taiichi Ohno as the core of the Toyota Production System, also known as Lean Manufacturing. To eliminate this waste, it is important that you understand what is waste and where it occurs in the production of products /
services. The types of waste that have been summarized by Jackson (2013) are as follows:

1. Overproduction
2. Overprocessing (Processes that are not appropriate / excessive)
3. Defects (many defective products)
4. Waiting (a lot of waiting time)
5. Transport (ineffective transportation)
6. Inventory (excess inventory)
7. Over Motion (unnecessary movement)

This time the community service will focus on the Small and Medium Industries in West Jakarta. IKM in West Jakarta is dominated by industries engaged in food (restaurant), trade, and hotels as many as 4,318 business units (BPS Statistical Data, 2017) where this sector accounts for more than 22% of total GDP in Million rupiahs. On average, this industry is run by small capital entrepreneurs who employ 5-19 workers and have limited human resources and technology. As has been explained by Wiratech (2015) that there is no skilled and knowledgeable workforce in production techniques as one of the potential weaknesses that causes SMEs to lag.

Along with the 2014-2019 Nawacita Jokowi-JK program launched by the government to grow independent and developing small businesses, the community service team wants to contribute by providing coaching and counseling to improve the ability of human resources at SMEs, especially in the aspects of productivity and cost effectiveness so that it can realizing SMEs that are able to make savings where savings are expected to help the activities of the production / service process can run better, the minimum costs incurred, the maximum profit generated so that the development opportunities in other aspects of the IKM can be maximized.

1.2. Purpose of Activities
Providing understanding and coaching in optimizing production activities through identification and elimination of waste in the production process in the household / small industry.
1.3 Benefits

1. Improve SMEs' understanding of the importance of eliminating waste so that production activities are more productive.
2. Increasing the knowledge of SMEs in order to improve their ability in terms of management & production techniques.
CHAPTER II. TARGET AND OUTPUT

2.1. Target
The solutions to be offered in this service are:
1. Provide guidance to SMEs regarding the identification and reduction of waste in production activities.
2. Provide an understanding of how to evaluate performance that is effective, productive, and cost effective in production activities.

1.1 Output
The target outcomes to be achieved in this training are:
1. Scientific articles to be published in national journals
2. Service report
The planned performance targets can be seen in Table 2.1

| No | Types of Outcome                                                                 | Indicators |
|----|----------------------------------------------------------------------------------|------------|
| 1  | Scientific publication in the journal ISSN / proceedings                          |            |
| 2  | Publication on printed / online / repository media at University                  |            |
| 3  | Increased competitiveness (increase in quality, quantity, and value added of goods, services, product diversification, or other resources) | √          |
| 4  | Increasing the application of science and technology in society (mechanization, IT, and management) | √          |
| 5  | Improvement of community values (arts, culture, social, political, security, peace, education, health) |            |
| 6  | Publications in international journals   |            |
| 7  | Services, social engineering, methods or systems, products / goods                |            |
| 8  | New Innovation Appropriate Technology                                             |            |
| 9  | Intellectual property rights (patents, simple patents, copyrights, trademarks, trade secrets, industrial product design, plant variety protection, protection of integrated circuit topographic designs) |            |
| 10 | ISBN book                                                                         |            |
CHAPTER III. IMPLEMENTATION METHOD

3.1 Implementation Method
Providing understanding to SMEs about the importance of identifying and reducing waste in production activities in accordance with the ideals of Nawacita Jokwi-JK 2014-2019 to develop and advance SMEs.

3.1.1 Implementation Time
Implementation is carried out for one day by WEBINAR online zoom meeting. The duration of the activity consists of 3-4 hours.

3.1.2 Implementation Location:
The activity will be carried out at webinar online zoom meeting with the audience owner of SME that located in North Kembangan, Kembangan sub-district, West Jakarta.

3.2. Preparation
Preparation of Components and Equipment
   In doing this community service things needed are as follows:
   • Laptops (Windows 7 minimum)
   • Power Point Assistance Materials
   • LCD
   • Electric socket
   • Interner
   • Zoom Meeting

3.3 Materials Assistance
The material that will be delivered in this community service are:
   • Part I. Introduction to the Lean Manufacturing Concept
   • Part II. Introduction to Seven Waste
   • Part III. Guidance on procedures for identifying and eliminating waste in production activities through case studies
3.4 Evaluation Method

After the implementation of the development activities, the service team will evaluate whether the SMEs have been able to identify what their waste is included in the 7 types of waste and where it came from? Or is SMEs able to eliminate the waste? then the implementation team will make a return visit to the partner location to see the effectiveness of the assistance activities.
CHAPTER IV. BUDGET AND SCHEDULE

4.1. Budget

The summary of the budget for Lean Manufacturing Training To Reduce Waste In Small Medium Enterprises Kembangan West Jakarta is as shown in Table 4.1 below:

Table 4.1 Details of UMB Fund Costs

| No | Component                                      | Funds Proposed (Rp) |
|----|------------------------------------------------|---------------------|
| 1. | Instructor Honorarium                         | None                |
| 2. | 50 people internet quota for online training  | Rp. 2,500,000,-     |
| 3. | Administration & host online meeting          | Rp. 2,500,000,-     |
| 4. | ATK                                            | Rp. 500,000,-       |
| 5. | Material                                       | Rp. 500,000,-       |
| 6. | Making proposals, initial reports & final reports | Rp. 1,000,000,-   |
| 7. | Leasing zoom meeting application              | Rp. 500,000,-       |
|    | TOTAL                                          | Rp. 7,500,000,-     |

Table 4.2 Details of Partner Funds (Inkind)

| No | Component                                      | Funds Proposed (Rp) |
|----|------------------------------------------------|---------------------|
| 1. | Internet quota                                 | Rp. 500,000,-       |
| 2. | Key note speach                                | Rp. 2,000,000,-     |
| 3. | Administration & host online meeting          | Rp. 1,500,000,-     |
|    | TOTAL                                          | Rp. 4,000,000,-     |
### 4.2. Activity Schedule

#### Table 4.3 Time Schedule

| NO | Activity                                      | 2020 | 2021 | Place            |
|----|-----------------------------------------------|------|------|------------------|
|    |                                               | Nov  | Des  | Jan  | Feb  | Mar  |
| 1  | Submission of proposals and presentations     |      |      |      |      |      |
|    |                                               | UMB  |      |      |      |      |
| 2  | Distribution of invitations to the target audience |      |      |      |      |      |
|    |                                               | Kembangan |      |      |      |      |
| 3  | Implementation                                |      |      |      |      |      |
|    |                                               | UMB & Kembangan |      |      |      |      |
| 4  | Evaluation of implementation                 |      |      |      |      |      |
|    |                                               | UMB  |      |      |      |      |
| 5  | Report                                        |      |      |      |      |      |
|    |                                               | UMB  |      |      |      |      |
REFERENCES

Data Statistik BPS. https://jakbarkota.bps.go.id/linkTableStatis/view/id/25

Jackson, B. 2013. Seven Waste. Workshop Presentation Premera Blue Cross Association. Diakses dari: http://www.results.wa.gov/sites/default/files/The%207%20Wastes.pdf

Julianto, P.A. 2016. Pemerintah Pacu Pertumbuhan Industri Kecil Menengah. Diakses pada http://ekonomi.kompas.com/read/2016/12/30/190450026/pemerintah.pacu.pertumbuhan.industri.kecil.menengah.

Lean manufacturing.org. 2015. Diakses dari http://leanmanufacturingtools.org/wp-content/uploads/2016/11/seven-wastes.pdf

Wiratech.com. 2015. Keunggulan dan Kelemahan Usaha Kecil & Menengah. Diakses pada https://wiratech.co.id/keunggulan-dan-kelemahan-usaha-kecil-dan-menengah/.
# APPENDIX

## CURRICULUM VITAE

### A. Personal identity

|   |   |
|---|---|
| 1 | Full name (with title) | Dr. Ir. Zulfa Fitri Ikatinasari, MT |
| 2 | Gender | Perempuan |
| 3 | Functional | Lektor Kepala |
| 4 | NIP / NIK / Other identity | 113720381 |
| 5 | NIDN | 0307037202 |
| 6 | Place and date of birth | Jakarta, 7 Maret 1972 |
| 7 | E-mail | zulfafitri@gmail.com |
| 8 | Phone / Cellphone Number | 08119444609 |
| 9 | Office address | Universitas Mercu Buana, Jl. Raya Meruya Selatan No. 01 Kembangan, Jakarta Barat - 11650 |
| 10 | Office Phone / Fax Number | 021-5840815/021-5840816 |
| 11 | Graduates Who Have Been Produced | S-1 = 43 orang; S-2 = 20 orang; S-3 = - orang |

### 12. Subjects taught

1. Industrial Research & Professional Communication
2. Performance Management System
3. Designing Lean Manufacturing
4. Enterprise Resource Planning
5. Operational Management

### B. Educational background

|   | S-1 | S-2 | S-3 |
|---|-----|-----|-----|
| Name of College | Bogor Agricultural Institute | Bandung Institute of Technology | Bogor Agricultural Institute |
| Study program | Agricultural Industrial Technology | Industrial Engineering & Management | Agricultural Industrial Technology |
| Knowledge field | Production process | Industrial Engineering | Industrial Engineering & Management |
| Graduation year | 1995 | 1998 | 2010 |
| Thesis Title / Thesis / Dissertation | Use of Nitrogen and Micro Minerals in Cellulase Production in Medium Palm Oil Solid Waste by Neurospora Chitophilica | Islamic Bank Performance Evaluation in Indonesia with Conceptual Analysis and Financial Ratio Analysis | Intelligence Decision Support System Design for Agro-Industry-Based Agropolitan Development |
| Name of Supervisor / Promotor | Dr. Aziz Darwis | Ir. Drs. H. Arson Aliludin, SE., DEA | Prof. Dr. Syamsul Maarif |
|   | Dr. TunTedja Irawadi | Dr. Illah Sailah | Prof. Dr. E. Gumbira Said |
|   | Dr. Illah Sailah | | Prof. Dr. Marimin |
|   | | | Dr. Tajuddin Bantacut |
|   | | | Dr. Aris Munandar |
## C. Research Experience in the Last 5 Years

| No. | Year | Title of Research                                                                 | Funding Source                                      | Amount (Rp. Million) |
|-----|------|-----------------------------------------------------------------------------------|-----------------------------------------------------|----------------------|
| 1   | 2018 | Designing a Lean & Green Manufacturing Performance Management System to Achieve Competitive Advantages and Environmental Insights in the Electronic Components Industry | Strategi Nasional Institutis KemRistekDikti         | 65                   |
| 2   | 2018 | Designing a Lean Balance Scorecard Performance Management System                  | UMB Research Center                                 | 7                    |
| 3   | 2018 | Optimizing the Distribution Line of Fruit Juice Industry Products with Consideration of Environmental Aspects | UMB Research Center                                 | 7                    |
| 4   | 2017 | Design of Lean & Green Manufacturing Performance Management Systems to Achieve Competitive Advantages and Environmental Insights in the Electronic Components Industry | Penelitian Produk Terapan (PPT) KemRistekDikti     | 70                   |
| 5   | 2017 | Business Development of the Batik Industry Process                                 | UMB Research Center                                 | 5                    |
| 6   | 2017 | Design of Sustainable Value Stream Mapping at PT. ANN                              | UMB Research Center                                 | 5                    |
| 7   | 2017 | Sharia Bank Development Strategy Based on Perception of Entrepreneur Muslimah      | UMB Research Center                                 | 5                    |
| 8   | 2016 | Formulation of Development Patterns for Small and Medium Industries in Manokwari and Bantaeng Districts | Kemenprerin RI                                       | 350                  |
| 9   | 2016 | Application of Value Stream Mapping at PT AEMI Quality Control Department           | Penelitian Unggulan Puslit UMB                      | 10                   |
| 10  | 2016 | Development of East Java Retail Cooperative Business Model for Increasing Competitiveness | UMB Research Center                                 | 3.5                  |
| 11  | 2015 | Analysis of the Role of Marketing Cooperatives in Supply Chain                     | Kementerian Koperasi & UKM                         | 350                  |
| 12  | 2015 | Designing a balanced scorecard at PT. Kadr                                        | UMB Research Center                                 | 3.5                  |
| 13  | 2014 | Application of Enterprise Resource Planning (ERP) in Small and Medium Enterprises (SMEs) by using Commerce | Penelitian Hibah Bersaing (PHB) Kemdikbud           | 50                   |
| 14  | 2014 | Lean Service Implementation Through Value stream mapping (VSM) in UMB Industrial Engineering Study Program | UMB Research Center                                 | 3.5                  |
| 15  | 2014 | ERP Performance Assessment at PT.AEMI with the Balanced Scorecard Approach          | UMB Research Center                                 | 3.5                  |
| 16  | 2013 | Preparation of Furniture IKM Profile in 2013 through the Development of IKM Centers through OVOP | Kemenperin RI                                       | 340                  |
## D. Experience of Community Service in the Last 5 Years

| No. | Tahun | Title of Community Service Program                                                                 | Funding Source                                                                 | Amount (Rp. Million) |
|-----|-------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| 1   | 2018  | Family Economy Improvement Training for Housewives                                                   | UMB community service center                                                  | 3.5                  |
| 2   | 2017  | IbM Creative Products Mothers of Pkk South Meruya Based on 3R Urban Solid Waste (Members)         | Pengabdian bagi Masyarakat IbM KemRistekDikti                                 | 50                   |
| 3   | 2017  | Development of Packaging for Household Products in Meruya Selatan Village                           | UMB community service center                                                  | 3.5                  |
| 4   | 2017  | Training and Assistance for Hodroponic Planting in Rawa Buaya Sub-District                         | UMB community service center                                                  | 3.5                  |
| 5   | 2016  | Science and Technology for Society (IbM) Implementation of e-Commerce Based Enterprise Resource Planning (ERP) in UKM Furniture (Chair) | Pengabdian bagi Masyarakat IbM KemRistekDikti                                 | 43                   |
| 6   | 2016  | Mentoring for the establishment of Posdaya Kenanga 01 RW03, Meruya Selatan Subdistrict, Kebon Jeruk, West Jakarta | UMB community service center                                                  | 3.5                  |
| 7   | 2016  | 5R Concept Training (Concise, Neat, Friendly, Careful and Diligent) for Work Efficiency Improvement in Kalideres Village Business Activity Group | UMB community service center                                                  | 3.5                  |
| 8   | 2016  | Application of ICT Applications in Promotion of IRT Products in Kalideres Village                  | UMB community service center                                                  | 3.5                  |
| 9   | 2015/2016 | Assistance in the Development Process of Child Friendly Integrated Public Spaces (RPTRA) in Kalideres Village, West Jakarta | CSR PT. Ciputra & Pemprop DKI Jakarta                                         | 75                   |
| 10  | 2015  | Value stream mapping training for employees of PT. AEMI                                            | UMB community service center                                                  | 3.5                  |
| 11  | 2014  | Basic Leadership Training for Heads of Non Formal Early Childhood Education (PAUD) in Kebon Jeruk Kotad District, West Jakarta | UMB community service center                                                  | 3.5                  |
| 12  | 2014  | Blog Design Training for PAUD Educators                                                             | UMB community service center                                                  | 3.5                  |
| 13  | 2014  | Guest Lecture The role of TPM in the current and future development of the industrial world is related to the utilization of SCM, 4 June 2014 | Industrial Engineering UMB                                                   | 3                    |
| No. | Title                                                                                                                                                                                                 | Journal                                                                                                                                  | Volume/Number/Year                                                                 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1   | Perbaikan Waktu Setup dengan Menggunakan Metode Smed Pada Mesin Filling Krim                                                                                                                        | Jurnal Ilmiah Teknik Industri                                                                                                           | Vol 6 Issue 1, 2019/2/19 https://journal.untar.ac.id/index.php/industri/article/viewFile/3015/1843 |
| 2   | Understanding Ergonomic Work Way In Fishing Catching Activities For Leleyan Ukk Post Leleyan Grogol Cilegon                                                                                          | ICCD (International Conference on Community Development)                                                                                | 1(1), 2018, 323-329 https://doi.org/10.33068/iccd.Vol1.Iss1.49                    |
| 3   | Evaluation and Recommendation of Performance Management Systems (Case Study in PT. Koba Multi Indonesia)                                                                                             | International Journal of Research in Engineering, Science and Management                                                                   | Volume-1, Issue-12, December-2018, 820-825 https://www.ijresm.com/Vol_1_2018/Vol1_Iss12_December18/IJRESM_V1_I12_192.pdf |
| 4   | Analysis of Performance Measurement in the Department Quality of PT. ABC with the Balance Score Card and Path Analysis Methods                                                                 | International Journal of Research in Engineering, Science and Management                                                                   | Volume-1, Issue-12, December-2018, 773-782 https://www.ijresm.com/Vol_1_2018/Vol1_Iss12_December18/IJRESM_V1_I12_182.pdf |
| 5   | Relationship of Performance Appraisal, Work Motivation, and Turnover Intention towards Improving Employee Performance                                                                                 | International Journal of Research in Engineering, Science and Management                                                                   | Volume-1, Issue-12, December-2018, 672-675 https://www.ijresm.com/Vol_1_2018/Vol1_Iss12_December18/IJRESM_V1_I12_157.pdf |
| 6   | The Implementation Lean and Green Manufacturing through Sustainable Value Stream Mapping                                                                                                             | IOP Conference Series: Materials Science and Engineering                                                                                | 453 (1), 012004 https://iopscience.iop.org/article/10.1088/1757-899X/453/1/012004/pdf |
| 7   | Forecasting of PVB Film Using ARIMA                                                                                                                                                                 | IOP Conference Series: Materials Science and Engineering                                                                                | 453 (1), 012012 https://iopscience.iop.org/article/10.1088/1757-899X/453/1/012012/pdf |
| 2   | Analysis of Turnover Intention Power Factors: A Case Study Company Retail in Jakarta                                                                                                               | Management Science Letter                                                                                                               | Vol 8 No.10, 2018                                                                 |
| 3   | Improving Quality Control Process Through Value Stream Mapping                                                                                                                                       | International Journal of Engineering & Technology                                                                                    | Vol 7 No. 2.29, 2018                                                            |
| 4   | Proposed Analysis of Privated Priorities on Procurement of Goods at PT Krakatau Daya Listrik Through Fuzzy AHP Method                                                                               | Global Journal of Engineering Science and Research Management                                                                            | Vol 5 Nomor 4, hal 44-53, 2018                                                   |
| No. | Title | Journal and Edition Information |
|-----|--------|--------------------------------|
| 5   | IbM Produk Kreatif Ibu-ibu PKK Meruya Selatan Berbasis 3R Limbah Padat Perkotaan | Jurnal Sinergitas PKM & CSR, p-ISSN: 2528-7052; e-ISSN: 2528-7154, Vol.2 No.1, Oktober 2017 |
| 6   | Pengukuran Kinerja dengan Balance Score card di departemen maintenance PT.BICC Berca Cable | PASTI, Jurnal Teknik Industri UMB, Vol 11 Nomor 2, Agustus 2017 |
| 7   | Peningkatan Kinerja Operator pada Mesin FUKUI 600 Ton Menggunakan Metode Exchange of Dies (SMED) | PASTI, Jurnal Teknik Industri UMB, Vol 11 Nomor 2, Agustus 2017 |
| 8   | Pengukuran Performance Management SMA Poris Indah menggunakan Balance Score card | PASTI, Jurnal Teknik Industri UMB, Vol 11 Nomor 2, Agustus 2017 |
| 9   | Upaya Perbaikan Keandalan Roller Mill Dengan Root Cause Analysis Dan Pendekatan Preventive Maintenance | Jurnal Teknik Industri Usakti ISSN: 1411-6340, Vol 6, No 3 (2016), Hal 197-207, http://www.trijurnal.lemlit.trisakti.ac.id/index.php/tekin/article/view/1544 |
| 10  | Evaluasi Kapabilitas Sistem Informasi Manajemen Akuntansi Barang Milik Negara di Satuan Kerja TNI Angkatan Laut | Jurnal Ilmiah Teknik Industri PERFORMA Universitas Sebelas Maret (UNS) Solo ISSN 1412-8624, Vol. 1 No.1 Hal 59-69, Solo Maret 2016, http://pub.industri.ft.uns.ac.id/index.php/performa/article/view/254/219 |
| 11  | Peningkatan Kinerja Audit Internal Dengan Metode Evaluasi Di Seksi Quality Assurance (QA) PT. Surya Toto Indonesia Tbk. | Jurnal Ilmiah Teknik Industri (JITI), ISSN 2337-5841 (print) ISSN 2355-6528 (online), Vol.3 No.3 Hal 166-176, Jakarta Oktober 2015, http://journal.tarumanagara.ac.id/index.php/jidtind/article/viewFile/2538/2228 |
| 12  | Analisis Bullwhip Effect terhadap Penerapan Distribution Resource Planning di PT. MNJ | J@TI Jurnal Teknik Industri Universitas Dipenogoro, ISSN 19071434, Vol. X, No.3, September 2015 hal 141 – 148, http://ejournal.undip.ac.id/index.php/jgti/article/view/9508 |
| 13  | Faktor-faktor yang Mempengaruhi Efektifitas Penerapan Sistem HACCP | Jurnal Standardisasi ISSN 1411-0822 Terakreditasi LIPI No.476/AU2/P2MI-LIPI/08/2012, Vol.16 No.3 Hal. 223-234, Jakarta November 2014, http://ojs.bsn.go.id/index.php/standardisasi/article/view/198 |
| 14  | Pengaruh Kondisi Ambient terhadap Kepuasan Konsumen dan Loyalitas Konsumen dengan Memoderasi Gender Konsumen | Jurnal Ilmiah Teknik Industri (JITI), ISSN 2337-5841 (print) ISSN 2355-6528 (online), Vol.2 No.3 Hal.184-194, Jakarta Oktober 2014, http://journal.tarumanagara.ac.id/index.php/jidtind |
| 15  | Implementasi Metode Quality Function Deployment untuk Meningkatkan Kualitas Produk Lift | Jurnal Ilmiah Teknik Industri (JITI), ISSN 2337-5841 (print) ISSN 2355-6528 (online), Vol.2 No.3 Hal.195-203, Jakarta Oktober 2014, http://journal.tarumanagara.ac.id/index.php/jidtind |
| 16  | Implementation of Lean Service with Value stream mapping at Directorate Airworthiness and Aircraft | Journal of Service Science & Management (JSSM) | Journal of Service Science & Management, 2014, Vol.7, pp. 291-301 |
F. Presentation of Scientific Seminar (Oral Presentation) in the last 5 years

| No | Name of Scientific Meeting / Seminar                                      | Title of Scientific Article                                                                 | Time & Place                  |
|----|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|
| 1  | ASIA International Multidisciplinary Conference 2017                      | Improving Quality Control Process Using Value Stream Mapping                                 | 1 – 2 Mei 2017, UTM, Johor Bahru |
| 2  | International Conference of Organizational Innovation (ICOI)              | Analysis of critical success factor for ERP implementation to achieve competitive advantage | 26-28 July 2016 Beijing       |
| 3  | International Conference on Tax, Investment & Business (ICTIB)           | Benchmarking And Improvement Of Business Process Modelling In Small And Medium Industries (SMIs) To Sustain In Global Economic Competition 2016 | 23 -24 Maret 2016 Kemenkeu RI, INDEF & UMB, Jakarta |
| 4  | Indonesia International Conference on Business,                          | Identification of Waste Through Value Stream                                                | 27-28 Agustus 2015, Pasca UMB, Makassar |
| No. | Event Description                                                                 | Date/Location                                                                 | Details |
|-----|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------|
| 5   | Management and Communication Mapping (VSM) on Job Training for Lean Service      | 27-28 Agustus 2015, Pasca UMB, Makassar                                        |         |
| 6   | Indonesia International Conference on Business, Management and Communication       | 27-28 Agustus 2015, Pasca UMB, Makassar                                        |         |
| 7   | Designing Strategy Maps for Startup Company                                         | 27 September 2014, Fasilkom UMB, Jakarta                                       |         |
| 8   | Indonesia International Conference on Business, Management and Communication       | Analysis of Effect ERP Implementation for Financial Performance and Non-Financial Performance |         |
| 9   | Seminar Nasional Pengaplikasian Telematika (SINAPTIIKA) 2014                       | Perancangan dan Desain Sistem Informasi E-Business untuk UKM                  |         |
| 10  | Seminar Nasional Teknik Industri 2014                                               | Analisis Lingkungan Eksternal dan Internal Bisnis Serasi Jati Furniture Sebagai Langkah Awal Dalam Penerapan Information Technology | 2-4 September 2014, TI Unand & BKSTI, Bukittinggi |
| 11  | International Seminar on Industrial Engineering and Management (7 th ISIEM)         | Selection of Open Source ERP System for Furniture SMEs as A Competitive Strategy | Maret 2014, BKSTI, Bali |
| 12  | International Seminar on Industrial Engineering and Management (6 th ISIEM)         | Static Back Strenght – A Study Among Young Adults                              | Maret 2014, BKSTI, Bali |
| 13  | International Seminar UMB                                                            | The Use Of PDM Workgroup as Engineering ERP System                             | Oktober 2013, Pasca UMB, Bali |
| 14  | International Seminar on Industrial Engineering and Management (6 th ISIEM)         | Implementation Theory of Constrain on CFM56-3 Aircraft Engine Maintenance      | Februari 2013, BKSTI, Batam |
| 15  | Seminar Nasional Pengkajian dan Penerapan Teknologi Industri ke-3 (SNPPTII 2012)   | Penerapan Lean manufacturing melalui Metode Gemb Kaizen dengan Pendekatan Siklus PDCA untuk Peningkatan Produktivitas di PT.XYZ, Bekasi | Juni 2012, Fakultas Teknologi USAKTI, Jakarta |
| 16  | Seminar Nasional Inovasi dan Teknologi                                             | Analisis Pengaruh Gaya Kepemimpinan, Kepuasan Kerja dan Komitmen Organisasi terhadap Kinerja Karyawan (Studi pada BAppeda Kabupaten Bekasi) | Juni 2012, Fakultas Teknologi Industri, Universitas Mercu Buana, Jakarta |
| 17  | Seminar Nasional Inovasi dan Teknologi                                             | Rancangan Perbaikan Sistem Kualitas pada Proses Produksi Rubber Outsole di PT. X | April 2012, Bina Sarana Informatika, Bandung |
### G. Seminar / Training participants in the last 5 years

| No | Name / Seminar / Training Theme                                                                 | Time & Place                                      |
|----|--------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1  | International Seminar on Quality of Engineers                                                 | KemristekDikti RI & IABEE, Jakarta, 13 Maret 2018 |
| 2  | Teaching Workshop Modul Discrete Event Simulation                                             | ISLI, BKSTI & ITS, Surabaya, 02 – 03 Maret 2018  |
| 3  | Teaching Workshop Modul Supply Chain Management                                                | ISLI, BKSTI & ITS, Surabaya, 01 – 02 Maret 2018  |
| 4  | Bimtek of KKNI curriculum preparation Kopertis Region III                                      | Bekasi, 13 Des 2017                              |
| 5  | National Seminar on Technology Assessment & Application III                                    | FT UMB, Jakarta 9 Des 2017                       |
| 6  | Studium General Logistic & Supply Chain                                                        | MTI UMB, 2 Des 2017                              |
| 7  | Sasmita ERP Training: Fundamental & Implementation                                             | Sasmita, 29 Okt 2017                             |
| 8  | Congressional Meeting of BKSTI VIII - SNTI                                                    | BKSTI Malang, 4-6 Okt 2017                       |
| 9  | Research Reviewer Training of the Ministry of Research & Technology                            | Depok, 4-7 September 2017                        |
| 10 | Evaluator Training for the Opening of the KemristekDikti New Study Program                    | Kopertis Wilayah IV, 15 Agustus 2017             |
| 11 | Professional Engineer Certification Workshop (LSIP)                                             | PII, 22 Maret 2017                               |
| 12 | Workshop on Accreditation & Curriculum for Industrial Engineering PS                          | BKSTI-USAHID, Maret 2017                         |
| 13 | Patent Workshop: Increasing Nation’s Competitiveness Through Innovation By PT                  | Kampus UMB, 14 Februari 2017                     |
| 14 | Workshop & Clinic for Industrial Engineering Study Program Accreditation                       | GSG Universitas Sangga Buana YPKP Bandung, 13 – 14 Desember 2016 |
| 15 | Scopus indexed journal writing training                                                        | Hotel Sofyan, 8 November 2016                     |
| 16 | Curriculum Update Workshop Refers to KKNI and SN DIKTI                                        | Kampus UMB, 29-30 September 2016                  |
| 17 | Training on Writing RISTEKDIKTI Research Proposals                                             | Kampus UMB, Meruya, 25 November 2015             |
| 18 | Tips for Writing & Penetrating International Journals By Tole Sutikno                           | Kampus UMB, Meruya 16 Oktober 2015               |
| 19 | Training on Making Science Proposals                                                          | Hotel Seruni, Cisarua, 13 – 15 April 2015        |
| No. | Type of Giving Award                                                                 | Institution                          | Year  |
|-----|-------------------------------------------------------------------------------------|--------------------------------------|-------|
| 1   | The highest PBM score lecturer is MTI study program at UMB Postgraduate Program, odd semester 2017/2018 | UMB                                  | 2018  |
| 2   | The Best Paper in International Conference of Organizational Innovation (ICOI), Beijing. | International Association of Organizational Innovation, USA | 2016  |
| 3   | E-learning award: Appreciation for the 8th e-learning lecturers in Second Semester 2014/2015 | UMB                                  | 2015  |
| 4   | Award to Lecturers at the Level of Doctors and Professors                           | Yayasan Menara Bhakti               | 2015  |
| 5   | Best Speakers of the 2014 National Telematics Application Seminar (Sinaptika), Jakarta | UMB                                  | 2014  |

J. Awards in the last 10 years (from government, associations or other institutions)

Jakarta, 28 November 2020

(Dr. Ir. Zulfa Fitri Ikatrinasari, MT.)
**CURRICULUM VITAE**

A. Personal identity

|   |   |   |
|---|---|---|
| 1.1 | Full name (with title) | Aifrid Agustina ST., M.Si |
| 1.2 | Functional | Lektor (300) |
| 1.3 | NIK | 10951 |
| 1.4 | NIDN | 0324087503 |
| 1.4 | Place and date of birth | Bukit Tinggi, 24 Agustus 1975 |
| 1.5 | Home address | Jl. Rasmala I/37 RT 03 RW 02 12870 |
| 1.6 | Phone / Fax Number |   |
| 1.7 | Mobile phone number | 081328082284 |
| 1.8 | Office address | Jl. Raya Meruya Selatan |
| 1.9 | Phone / Fax Number | 021-586 1779/021-586 1906 |
| 1.10 | Email address | aifrid02@yahoo.co.id |
| 1.11 | Graduates that have been produced | S1: 30 orang |
| 1.11 | Subjects | 1. Cost Analysis  
2. Technical Economics |

B. Educational background

|   | S-1 | S-2 | S-3 |
|---|---|---|---|
| Program: |   |   |   |
| Name of PT | Universitas Sahid | Universitas Gajah Mada |   |
| Knowledge field | Industrial Engineering | Manajemen |   |
| Year of Entry | 1995 | 2002 |   |
| Graduation year | 1999 | 2004 |   |
| Thesis Title / Thesis / Dissertation | Feasibility Analysis of Establishing a Wartel in Ciracas | Analysis of Structure and Source on Autocorrelation in Portofolio Return (Investigatictn on Jakarta Stock Exchange) |   |
| Name of Supervisor / Promoter |   | Dr. Emi Ekawati, MBA., MSA |   |

Jakarta, 28 November 2020

(Aifrid Agustina ST., M.Si)  
NIDN 0324087503
# CURRICULUM VITAE

## A. Identitas Diri

| No. | Deskripsi                                      | Isi                                      |
|-----|-----------------------------------------------|------------------------------------------|
| 1   | Nama Lengkap (dengan gelar)                   | Dr. Kosasih, SE, MM                      |
| 2   | Jenis Kelamin                                 | Laki-laki                                |
| 3   | Jabatan Fungsional                            |                                          |
| 4   | NIP/NIK/Identitas lainnya                     | 617700005                                |
| 5   | NIDN                                          | 0322057004                               |
| 6   | Tempat dan Tanggal Lahir                      | Jakarta, 22 Mei 1970                     |
| 7   | E-mail                                        | k.kosasih@mercubuana.ac.id               |
| 8   | Nomor Telepon/HP                              | 08119852205                              |
| 9   | Alamat Kantor                                 | Universitas Mercu Buana, Jl. Raya Meruya Selatan No. 01 Kembangan, Jakarta Barat – 11650 |
| 10  | Nomor Telepon/Faks Kantor                     | 021-5840815/021-5840816                  |
| 11  | Lulusan yang Telah Dihasilkan                 | S-1 = - orang; S-2 = - orang; S-3 = - orang |

## 12. Mata Kuliah yang Diampu

1. Change Management  
2. Logistic Management  
3. Organisasi & Manajemen Perusahaan Industri  
4. Komunikasi Bisnis

## B. Riwayat Pendidikan

|   | S-1                                      | S-2                                       | S-3                                      |
|---|------------------------------------------|-------------------------------------------|------------------------------------------|
| Nama Perguruan Tinggi | Universitas Padjadjaran Bandung | Universitas Negeri Jakarta | Universitas Negeri Jakarta |
| Program Studi | Manajemen | Magister Manajemen | Ilmu Manajemen |
| Bidang Ilmu | Manajemen Keuangan | Manajemen Strategik | MSDM |
| Tahun Lulus | 1996 | 2016 | 2020 |
| Judul Skripsi/Tesis/Disertasi | Analisa Laporan Keuangan Dengan Menggunakan Metode Radar Dupont di PT Industri Sandang | Pengaruh transformasional leadership, budaya korporasi dan implementasi ERP terhadap kinerja korporasi | Peran kesiapan perubahan dalam memediasi pengaruh authentic followership dan ambidextrous organization |
| No. | Tahun | Judul Penelitian | Pendanaan |
|-----|-------|------------------|-----------|
|     |       |                  | Sumber    | Jml (JutaRp) |
| 1   | 2019  | Meningkatkan kinerja inovatif di perusahaan manufaktur | Internal | 4,5 |
| 2   |       |                  |           |             |

**D. Pengalaman Pengabdian Kepada Masyarakat 5 Tahun Terakhir**

| No. | Tahun | Judul Pengabdian Masyarakat | Pendanaan |
|-----|-------|-----------------------------|-----------|
|     |       |                             | Sumber    | Jml (JutaRp) |
| 1   | 2019  | Sosialisasi Lingkungan Lestari Dengan Biopori di Pondok Bahar Tangerang | Internal | 4 |
| 2   | 2018  | Pelatihan value stream mapping untuk karyawan PT. JSTI Indonesia | Internal | 4 |

**E. Publikasi Artikel Ilmiah dalam Jurnal 5 Tahun Terakhir**

| No. | Judul Artikel Ilmiah | Nama Jurnal | Volume/ Nomor/Tahun |
|-----|-----------------------|-------------|---------------------|
| 1   | The influence of ambidextrous organization and authentic followership on innovative performance: The mediating role of change readiness | Management Science Letter (Scopus) | Vol.20 (2020) |
| 2   | Improving Quality Control Process Through Value Stream Mapping | International Journal of Engineering & Technology (Scopus) | Vol 7 No. 2.29, 2018 |
| 3   | The Implementation Lean and Green Manufacturing through Sustainable Value Stream Mapping | IOP Conference Series: Materials Science and Engineering | vol: 453 issue : 1 2018-11-29 |
3 Influence of Managerial Leadership, Corporate Culture and Implementation of ERP in Corporate Performance
Actual Problem of Economic (Proquest)
Vol. 3 No. 3 (189) 2017

4 Pengaruh Budaya Perusahaan dan Kepemimpinan Transformasional dalam Menentukan Keberhasilan Implementasi ERP
Jurnal Ilmiah Teknik Industri (Sinta 3)
Vol. 4 No.1 Februari 2016

F. Pemakalah Seminar Ilmiah (Oral Presentation) dalam 5 Tahun Terakhir

| No | Nama Pertemuan Ilmiah / Seminar | Judul Artikel Ilmiah | Waktu dan Tempat |
|----|---------------------------------|---------------------|------------------|
| 1  | International Conference on Inclusive Business in the Changing World | The influence authentic followership, ambidextrous leadership and readiness to changes on firm innovative performance | 6-7 Maret 2019, Jakarta |
| 2  | ASIA International Multidiciplinary Conference | Improving Quality Control Process Through Value Stream Mapping | 30-Apri 1 Mei 2017 UTJ Johor, Malaysia |
| 3  | International Conference on Tax, Investment & Business (ICTIB) | Influence of Managerial Leadership, Corporate Culture and Implementation of ERP in Corporate Performance | 23-24 Maret 2016 Kemenkeu RI, INDEF & UMB, Jakarta |

G. Peserta Seminar/Pelatihan dalam 5 tahun terakhir

| No | Nama & Tema Seminar/Pelatihan | Waktu & Tempat |
|----|-------------------------------|----------------|
| 1  | Manajemen K3 (Kesehatan dan Keselamatan Kerja) oleh Kementerian Tenaga Kerja | Bekasi, 20 Februari 2018 |
| 2  | Membangun Kemampuan Negosiasi Dalam Hubungan Industri oleh SPSI dan FKKSM | Pasuruan, 17-19 November 2017 |
| 5  | Conflict Management oleh JST Indonesia | Bekasi, 22 November 2017 |
| 3  | Hubungan Industri dan Standar Perburuhan Internasional oleh APINDO & ILO | Bekasi, 17 Oktober 2017 |
| 6  | HORENSO Model Komunikasi Perusahaan Jepang | Bekasi, 29 Agustus 2017 |
| No | Judul | Penyelenggara | Tempat dan Tanggal |
|----|--------|---------------|-------------------|
| 4  | Penerapan Transfer Pricing, Kendala dan Solusinya oleh Kementerian Keuangan & MUC | | Jakarta, 14 Februari 2017 |
| 7  | Time Management | | Jakarta, 3 Oktober 2017 |
| 8  | Problem Solving & Decision Making oleh Neville Clarke Indonesia | | Jakarta, 23-24 November 2016 |

Jakarta, 28 November 2020

Dr. Kosasih, SE. MM.