

Layout Design of Distributor Warehouse PT. X in Sidoarjo

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Abstract

PT. X is a distributor of consumer goods products with a total of 34 warehouses and 121 branch offices. The process of storing goods was still random, then it resulted in the long process of searching and picking up goods. The objective of this research was to design a new layout for storing goods in the warehouse of PT. X in order to simplify the search process and minimize time for picking up goods. The proposed storage was the Class Based Storage method based on ABC Analysis. Each item was grouped based on each brand. Furthermore, each brand was classified into three classes by using ABC Analysis based on the frequency of picking up each item. We used it to determine the priority of the storage location of each brand. Class A would prioritize the storage slot area with the closest distance; class B would be in the storage slot area with a medium distance; and class C would be in the storage slot area with the furthest distance from the staging area. After obtaining the class of each brand, then the classification was carried out for each brand group in the same way to obtain priority storage locations for each product. The storage allocation process was carried out by using a simulation method with a spreadsheet. The results of the proposed layout design resulted in saving search time of 22% or 163 seconds and picking up time of 37% or 23.96 hours based on the 2 month purchase order list.

Keywords: ABC Analysis, Class Based Storage, Layout, Warehouse

1. Introduction

PT. X is a consumer goods distributor company in Indonesia. They distribute cleaners, fragrances, snacks, and beverages from several loyal principals. These products are distributed every day to their various consumers; including supermarkets, retail, shops and traditional markets. The coverage of distribution areas is wide, especially in eastern Indonesia, with a total of 34 warehouses and 121 branch offices. One of the warehouses which is located in Sidoarjo, East Java, is also their head office. This warehouse's storage capacity is large enough to store products with thousands of types and quantities. The products stored in this warehouse are supplied from several principals. However, in general, the stored products are divided into two types: food and non-food.

This 3,480 m² warehouse has a racking system where the product storage process is arranged on pallet shelves which consists of 6 levels. The warehouse has a total of 20 rows of shelves, with an average of 14 racks for each row. The existing storage area is divided into 3 cardboard areas which include food and non-food category products. There is a cooling area for easy-to-melt food and a specific area for products from Principal Z to serve orders in units. As a result, the warehouse implements the FEFO (First Expired First Out) system.

This research only focuses on the cardboard category products from Principal Z, because their products use 48.06% of warehouse space usage. The problem was the random storage process that made it mixed with other products. This results in a difficult searching process and long order picking time. At the end of the day, products were not placed in their right location and interfered with activities in the warehouse. The purpose of this research is to design a proposed layout for product storage in the warehouse of PT X with the objective to simplify the searching process and minimize order picking time. This research will provide recommendations for product storage strategy in the warehouse to increase warehouse productivity.

2. Method

Eldemir, Graves, Malmborg (2004) proposed a method for arranging the storage layout that depends on the characteristics of the products. This research will use the Class Based Storage method using ABC Analysis. Class Based Storage method is a combination between Random Storage method and Dedicated Storage method. This method divides the product into some classes based on the ratio of throughput and storage ratio. This method has a place arrangement that is designed to be more flexible by dividing the place into several classes. However, each place may contain goods randomly by several types of products that have been classified based on the type and characteristics of the goods.

For developing the class, this research used ABC Analysis for managing product inventory based on the Pareto

principle. Pareto principle states that 80 percent of the impact is caused by 20 causes. There is another criterion namely the frequency of movement, where the inventory in the warehouse is divided into 3 classes of specific criteria. First is class A that consists of items that account for a little less than 20 percent of the total number of goods but have a movement frequency of 80 percent. Second is class B for goods that have a total of 35 percent of the total number of goods in existence but have a movement frequency of 15 percent. The last is class C that has 45 percent of the total products with 5 percent of movement frequency (Manzini et al, 2015).

After the required data is collected, the first analysis is about initial conditions to determine the problems inside the warehouse. An improvement will be proposed to solve the existing problems. Kriehn et al (2018) in their research showed the result of layout improvement by grouping products based on each brand. After obtaining the brand group, ABC classification will proceed based on the order picking frequency to determine the priority of the storage area for each brand. This process will result in 3 classes. Class A will be prioritized to be placed in the storage area with the closest distance from the staging area, class B will be prioritized to be placed in the storage area with a medium distance, and class C will be prioritized to be placed in the storage area with the farthest distance. After each class is obtained, then the product classification will be developed for each brand group with the same steps. Then the calculation of the allocation amount of each product is based on the largest number of stocks based on company data (Thi & Nguyen, 2016).

The use of large amounts of stock is taken to anticipate a shortage of storage space if there is an increase in the number of incoming goods than usual (Berg& Gademann, 2010). After that, an allocation is made to each storage slot using a simulation method using the spreadsheet. The first allocation process is for level 1 storage slots, continued with calculating the capacity of each slot. The remaining amount of stock that has been allocated at level one is used to calculate space requirements at levels 2-6. After each product has been allocated to each slot, the searching time and order picking time are calculated for the initial layout and the proposed layout (Mirzaei, Zaerpour, Koster, 2021). The goal is to find out whether the proposed layout design is better or not.

3. Result and Discussion

Data of the timing of order picking activity for initial layout are obtained in Table 1. Picklist is for product ID that will be picked. Order picking time is the duration to pick the product from a specific location. Percentage of traveling time, picking time, and searching time are the proportion of order picking time. It can be seen in the initial layout; the searching time has a big percentage because the picker takes a long time to find the location of the items on the order picking list. The process of designing the proposal layout is continued using the Class-based Storage method (Ederl, 2020), where the products will be grouped based on their respective brands in order to facilitate the searching process. After grouping, then the ABC classification will be done for the brand group. Table 2 consists of example ABC classification for brand principal Group A. The process to arrange the class are:

1. Sorting the brand groups based on the order picking frequency from the largest to the smallest
2. Calculating the percentage of order picking frequency for each brand group
3. Calculating the cumulative percentage calculation by adding up the percentage of order picking frequency for each brand
4. The class is formed with class A as a group of brands with a cumulative frequency of 80%, class B is 81-95% (35%), and class C is 96-100% (5%).

After classifying the brand groups, the next step is classifying the products for each brand using the same steps. From each product, it will be allocated to the existing storage slot using the space needed for each product. Space requirements of each product is calculated based on historical data on the amount of inventory. Table 3 consists of space required for each product based on inventory in July until September in box. The maximum space will be used as the available space for a specific group.

Table 1
Time Analysis of Order Picking Activity

No	Picklist	Order Picking Time (second)	% traveling time	% picking time	% searching time
1	22	300	26%	23%	50%
2	25	900	25%	31%	44%
	28				
3	7	360	31%	25%	43%
	8				
4	10	540	12%	22%	65%
5	13	300	22%	17%	61%
6	71	240	32%	58%	10%
7	47	900	15%	10%	75%
8	51	300	52%	19%	30%
	53				
9	54	300	51%	6%	43%
	56				
	57				
10	58	600	45%	15%	40%
	63				
	55				

Table 2
ABC Classification in the Brand Principal Group A

No	Brand	Order Picking Frequency	% Order Picking Frequency	% Cumulative Percentage	Class
1	DWN	1904	45%	45%	A
2	PTN	1120	27%	72%	
3	H&S	370	9%	81%	B
4	PMPS	162	4%	85%	
5	REJ	154	4%	89%	
6	AP	128	3%	92%	
7	OLY	98	2%	94%	

8	VKS	92	2%	96%	C
9	GIL	66	2%	98%	
10	OB	56	1%	99%	
11	WHIS	40	1%	100%	
12	HE	0	0%	100%	
Total		4190			

Tabel 3
Space Requirements Of Each Product

GBS Code	July (box)	August (box)	September (box)	Max (box)
01/326127402R	2730	1374	1380	2730
01/326127403U	1584	295	1185	1584
01/326127403W	1741	349	903	1741
01/326127402T	637	163	336	637
01/326127403S	325	143	281	325
...				
01/274923801A	24	12	7	24
01/274921601C	2	2	3	3
01/244621005B	5	11	2	11
01/07060502A	34	20	12	34
01/265525501F	1	8	1	8

Level 1 storage slots are for products that are commonly used for daily order picking processes. The allocation process is arranged by simulation using spreadsheets in accordance with the classification results that have been done. At level 1 slot there are 3 types of storage slots, which are without pallets, pallets (not full), and full pallets. This type of storage slot is also a concern during the allocation process. The storage slot without pallet is prioritized for small and medium category products, while pallet and full pallet storage types are prioritized for large and medium categories. After all products have occupied one slot at level 1, the next step is to calculate the capacity of each product based on the storage slot type. Table 4 consists of product allocation examples for level 1. GBS Code is identification for the product, category for the size, storage type is determination to use material handling. Distance comes from the location in the warehouse.

Table 4
Product Allocation to Level 1 Storage Slots

GBS code	Category	Slot	Distance	Storage Type
01/326127402R	Small	A-24-10	8,12	Full Pallet
01/245124609D	Medium	A-22-10	14	Without Pallet
01/326127402V	Medium	A-20-10	15,09	Pallet
...				
01/274921601C	Small	E-8-10-C	46,43	Without Pallet
01/244621005B	Small	E-8-10-D	46,43	Without Pallet
01/07060502A	Big	E-82-10	50,56	Pallet
01/265525501F	Big	E-84-10	51,86	Pallet

Calculation of the capacity of each storage slot

- Without Pallet (comparing slot dimensions with product dimensions)

Example for product 01 / 245124609D

Capacity = (Ps/Pp)x(Ls/Lp)x(Ts/Tp) (s = slot, p = product)

= (57.5/29.3) x (105/21.6) x (76/25.7) = 1 x 4 x 2 = 8 cartons

- Pallet: (Compares slot height to product height x product per layer)

Example for product 01 / 326127402V

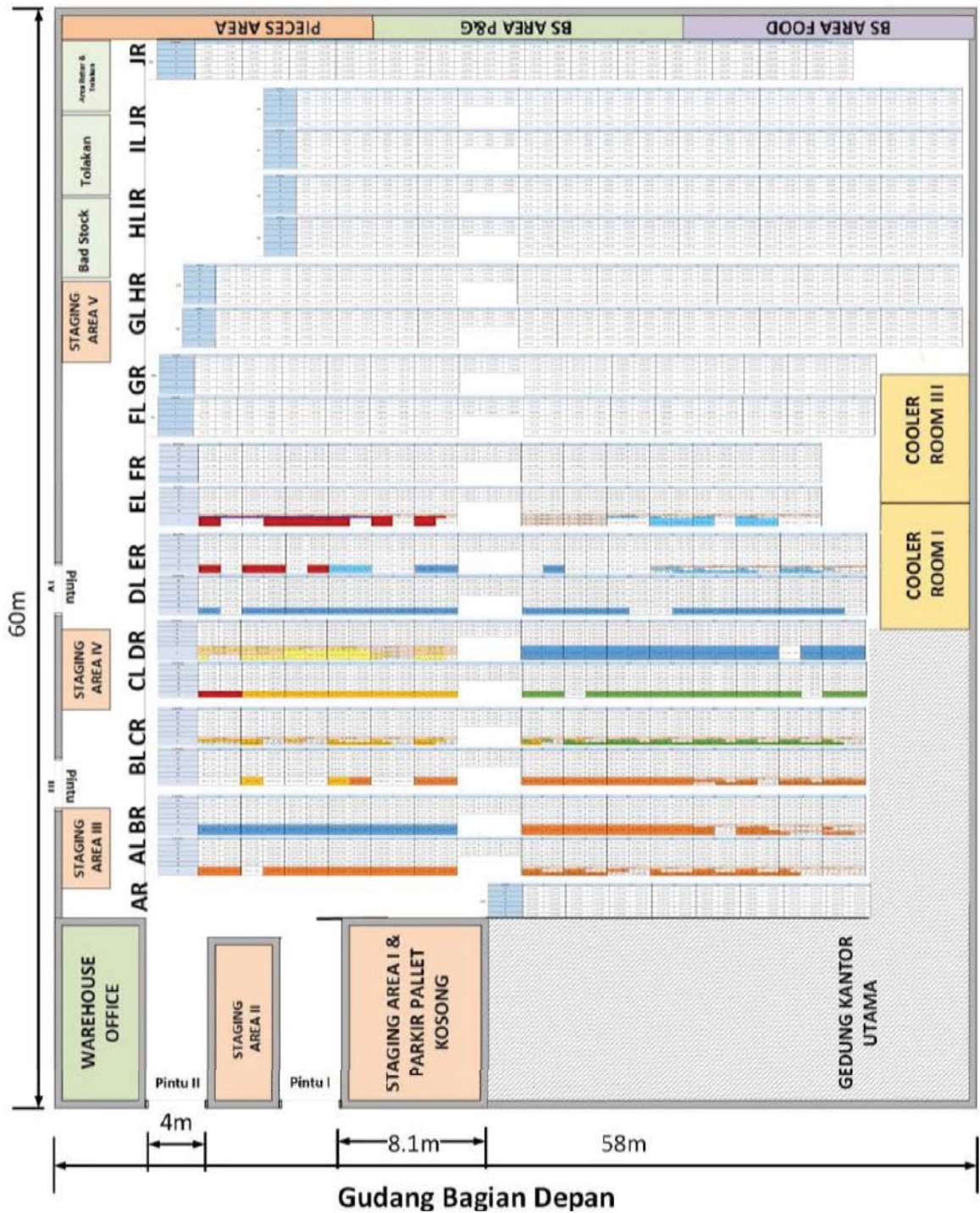
Capacity = B x (Ts/Tp) (s = slots, p = pallet, B = number of products per layer)

= 11 x (106/34) = 11 x 3 = 33 cartons

Full Pallet: (Based on data on the number of products per pallet)

After the capacity of each product at level 1 is known, the next allocation process is for storage slots level 2 until 6. The number of products allocated is based on the amount of remaining stock that has been allocated to the level 1 storage slot that has been converted in the form of pallets. The layout arrangement between initial layout and proposed layout shows in Figure 1. In the initial layout, because it did not consider the ABC Analysis, the location of products was scattered and it was difficult to search. The location also gave effect to longer distance and time. After the proposed layout was arranged, the product will be collected in one location based on ABC analysis. It will help the operator to find the product, making it less effort to access the location. It will give effect to picking time and distance.

From the results of the proposed layout design that has been made, we calculate the searching time and the order picking time for initial layout and the proposed layout. The searching time is measured using a simulation based on the existing picklist data, while the picking time is calculated based on the length of travel time and the extracting time. Table 5 shows the comparison between the searching time and Table 6 shows the picking time for initial and proposed layout.



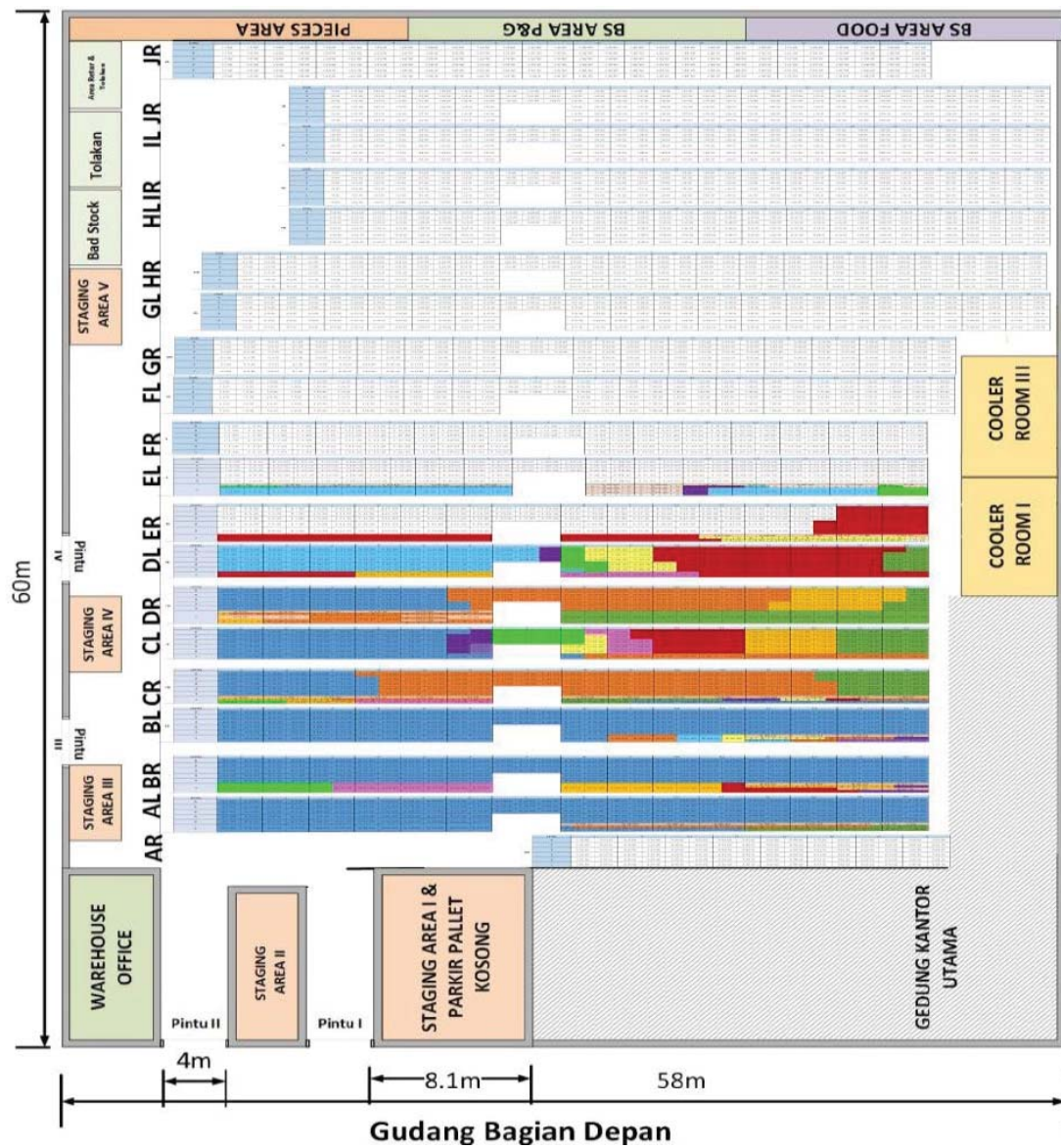


Figure 1: The layout arrangement between initial layout (top) and proposed layout (bottom)

Table 5
Comparison of Initial and Proposed Layout Searching Time

No Picklist	Initial Layout	Proposed Layout	Saving
22	204	202	-1%
25	201	141	-30%
47	116	74	-37%
51	176	137	-22%
71	47	26	-44%
Total Time (second)	744	580	-22%

Table 6
Comparison of Initial and Proposed Layout Picking Time

GBS Code	Picking Frequency	Picking Time (second)		Saving (%)		Picking Frequency
		Initial	Proposed	Initial	Proposed	
01/326127402R	182	55,60	20,61	10118,54	3750,46	-63%
01/326127402V	180	53,30	20,61	9594,30	3709,25	-61%
01/245124609D	146	55,41	14,62	8089,41	2135,07	-74%
...						
01/245321106B	2	64,68	66,44	129,35	132,89	3%
01/245321105D	2	48,82	73,98	97,65	147,96	52%
Total	3654	25499,31	23842,49	234915,23	148628,1	-37%

From the comparisons above, the proposed layout results in searching time and picking time saving. Saving searching time was 22% and picking time was 37%.

The class division was based on the frequency of taking each product. Each class determines the priority of the storage location placement for each product. With this method, not all products in the brand will be placed in a location but based on class groups. Thus the product class that has the highest frequency of collection from each brand will occupy the closest location. This will reduce the travel time between products and order picking process will be faster.

In the initial layout, the storage process is carried out based on the most sold products. The storage location near the staging area is occupied by the product group that has the highest sales figure regardless of the picking frequency for each product. Most sold products are not similar to the highest picking frequency product, because some of those products are demanded by a single customer. It makes many products that have more picking frequency are placed in remote locations and the order picking process takes longer time. In the proposed layout, the storage process will consider the picking frequency for each item. Grouping is developed based on the same brand, but not all product members are placed in one location, but based on the priority classes that have been made. The high frequency inter-brand products located close to each other, thus traveling time is getting faster. Table 7 shows comparison of distance between initial and proposed layout.

These achievements are evidence of the success of the layout arrangement that has been carried out. By arranging product layouts based on ABC Analysis, it supports the activities of storing and retrieving goods in the warehouse. ABC Analysis considers the specifications of each group so that the placement of the item will be in accordance with the effort to reach the location of the item. By using simulations that use spreadsheets, it is proven that there is less storage and retrieval time and distance. The savings obtained can be used to carry out other more value-added activities, increase warehouse capacity, and reduce resource use.

Table 7. Distance comparison between Initial and Proposed Layout

Brand	GBS Code	Initial		Proposed	
		Location	Distance	Location	Distance
DOWNY	01/326127402R	B-7-10	24.74	A-24-10	8.12
DOWNY	01/326127402V	B-9-10	23.65	A-34-10	8.12
PANTENE	01/245124609D	A-4-10	24.65	A-32-10-B	5.28
DOWNY	01/326127403U	B-3-10	27.13	A-22-10	14.00
PANTENE	01/245124609A	A-2-10	25.95	A-32-10-C	5.28
DOWNY	01/326127402S	B-13-10	21.26	A-36-10	14.00
DOWNY	01/326127403W	B-1-10	28.43	A-20-10	15.09
PANTENE	01/245124609B	A-24-10	8.12	A-32-10-D	5.28
DOWNY	01/326127403X	B-5-10	26.04	A-40-10	15.09
HEAD & SHOULDERS	01/244524603L	C-42-10	30.54	A-68-10-D	17.58
...					
PANTENE	01/245124609K	B-16-10	23.36	D-1-10-C	39.54
REJOICE	01/245321001N	C-45-10	21.06	D-24-10	30.34
GILLETTE	01/33109101A	E-28-10	39.91	D-10-10	38.81
ORAL-B	01/341313502A	E-74-10-A	48.82	E-14-10-B	44.04
AMBIPUR	01/316027112F	E-2-10-D	48.82	B-63-10-D	30.08
OLAY	01/294825206Q	D-5-10-D	37.15	E-55-10-C	45.42
PAMPERS	01/225026510B	F-11-10	45.87	B-23-10	15.18
WHISPER	01/235725801A	F-45-10	47.17	B-70-10	36.61
VICKS	01/07060401A	F-57-10	54.34	C-3-10	34.31

4. Conclusion

The development of the proposed layout design that uses the Class Based Storage method based on ABC Analysis can simplify the product search process, based on time saving 22% or 163 seconds. In the picking time, a savings of 37% or 23.96 hours (23 hours 57 minutes) was also obtained based on the order picking list for 2 months. The distance saving is 30.45% or 184.84 m. These savings were a result from locating the products with high picking frequencies in the nearest location to the shipping dock. Grouping products by brand makes it easier for pickers to remember

where the product is located, because each brand is divided into specific locations. This target will give effect to increasing company productivity because of the logistics smoothness. The proposed layout design can be a consideration for companies in determining the allocation of storage for goods in the warehouse.

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ID 080 Is the influence of Net Working Capital on Earnings per Share Critical: A Literature Review?

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ID 081 Strategic Market Planning Using SWOT Approach for Robotic Post-Stroke-Rehabilitation Product

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ID 083 Lean Manufacturing Approach for Improvements of Work System in Furniture Factories (A Case Study in PT. Salim Selamat Sempurna)

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ID 084 Production Planning and Control Industry 4.0 on Plastic Bottles With the Blow Moulding Process (Case Study Pt. Peace Industrial Packaging)

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ID 085 Factory Re-Layout with SLP, CRAFT, CORELAP, Promodel, and FlexSim for Optimization of Material Flow Movement

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ID 086 Quality Control Analysis Using DMAIC Method and DPMO Calculations on Low Voltage Cable Production (Case Study at PT XYZ Jakarta)

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ID 087 Analysis of Readiness toward Halal Certification in Sumatera Utara (Case study in Food Manufacturer)

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ID 088 Development of a Public Transportation Location-Based Service in Web Application

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ID 089 Identification of the PLCOR Model for the Management of Product Lifecycle Management Process in Food Industry

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ID 090 FMEA METHOD FOR IDENTIFYING THE RISK OF FAILURE THE BOSS 05K ROTOR IN MACHINING PRODUCTION PROCESS

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ID 091 Line Balancing in Assembly Line Automotive Carrosserie (Body of a Car) Production Process at PT. XYZ

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ID 092 Material Requirement Planning on Y-Strainer Production (Case Study at PT. XYZ)

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ID 093 Analysis of driving and inhibiting factors for managing food waste in restaurants,

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ID 094 Quality Improvement of Shoes Manufacturing Process at SMEs using the Quality Function Deployment (QFD)

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ID 095 Quality Function Deployment for the Improvement of the attributes from a Hybrid Micro Hydro-Solar Generator

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ID 098 Analysis of Halal Supply Chain in Chicken Meat Products using Human Error Perspective

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ID 099 Simulated Annealing Algorithm for Vehicle Routing Problem with Simultaneous Pick Up and Delivery: A Case Study of Liquid Petroleum Gas Distribution

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ID 102 A Knowledge Sharing Behavior Model and Its Effect on Employees' Innovative Work Behavior

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ID 103 A Model of Multiple Items Batch Scheduling for m Batch Processors Flowshop to Minimize Total Actual Flowtime

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ID 105 Implementation of Lean Healthcare For Waste Elimination at Darmayu Ponorogo Hospital

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ID 106 Usability Testing of Syringe Adapters and Conventional Syringe in Healthcare Workers

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ID 107 Blockchain Adoption for Halal Food Integrity in Indonesian Food Industry

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ID 108 Behavioral Factors Underlying Households' Intention Toward Solar Photovoltaic Adoption

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Bertha Maya Sopha and Adhika Widyaparaga, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada, Indonesia

ID 110 Capturing Profile of Halal Chicken Meat Slaughterhouse in Indonesia: A Clustering Approach

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ID 111 Robust Optimization of Multi Depot Vehicle Routing Problems with Simultaneous Deliveries and Pickups in an Uncertain Environment

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ID 112 Conceptual Model of the Dynamic System for Technology Transfer Office (TTO) Intervention in Accelerated Commercialization of Research Results

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ID 114 Risk Management Measurement Model in Small and Medium Industries

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ID 115 Public Facility During Pandemic MULTIFUNCTIONAL DINING TABLE DURING COVID 19

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ID 116 Modification of Food Dehydrator for Tea Blend Products Using Reverse Engineering and VDI 2221 Methods

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ID 118 Cost-Volume-Profit Analysis for Uncertain Capacity Planning: A Case Study

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ID 120 Set Covering Method Determine The Capacity, Type and Covering Area of The Temporary Landfill Facility in Each Region

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ID 121 A Green Inventory Management for Manufacturer-Retailer System with Stochastic Demand and Carbon Tax

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ID 132 Evaluation of Warehouse Operation in Power Plant Company Using Discrete Event Simulation

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ID 133 A Logic model development for planning program in Indonesia SMEs – Case study: Pucung, Manding, and Keparakan Kidul leathercraft industries

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ID 134 REDESIGNING OF FACILITY LAYOUT IN PT. OCEAN CENTRA FURNINDO USING GROUPTECHNOLOGY, CORELAP

AND CRAFT METHOD

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ID 135 The Effect of Safety Management and Perceived Motivation on Safety Practices for Safety Performance and Quality of Care

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ID 137 Cold Chain Planning for COVID-19 Vaccine Distribution

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ID 141 Business Feasibility Analysis: Multifunction Bus HandGrip

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ID 142 Planning Business Analysis of Multifunction Car Locker

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ID 143 Production, plant layout, and financial planning of Multifunctional Back Car Seat Organizer

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ID 144 Business Feasibility Analysis: Multifunctional Handphone Holder

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ID 145 Design Planning of Hand Sanitizer Dispenser and First Aid Kit on Bus

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ID 146 Design Key Performance Indicator for Supplier in Sustainable Organic Farming Supply Chain

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ID 147 Examining Customer Service Performance in Shipping Company

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ID 149 Development of Automatic Wound Healing Level Detection System based on Convolutional Neural Network

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ID 150 Development of Automatic Tomato Plant Diseases Detection System based on Convolutional Neural Network

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ID 151 Automatic Cataract Detection System based on Support Vector Machine (SVM)

Leonardo Michael Marcello, Endra Oei, Zener Sukra Lie, Winda Astuti, Automotive and Robotics Engineering Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta 11480, Indonesia

ID 152 A Conceptual Model: The Role of Social Networking in Indonesian SMEs during COVID-19 Pandemic

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ID 154 Kano Lean Six Sigma (KLSS) for Improving Service Quality at Education Technology (EdTech) Startups

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ID 156 The Influence Of Moods And Emotions On Female Leadership Style In The Hospitality Industry

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ID 157 Assessment of Laboratory Occupational Safety and Health at Engineering Faculty of Diponegoro University

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ID 159 A Simulated Annealing Heuristics for Delivery Time Equality of the Couriers in an Expedition Company

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ID 161 Fintech: The Impact of Technological Innovation on the Performance of Banking Companies

Felix Fernando, Christiana Fara Dharmastuti, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia

ID 162 The Critical Organization Factor Contribute Lecturers' Happiness

Nurul Nazihah Awang Kecek, Khairunesa Isa, Syamimi Syafiqah Shahlal, Science Social Department, Centre for General Studies and Cocurricular, University Tun Hussein Onn, Batu Pahat, Malaysia

ID 163 Analysis of Warteg's Customer Satisfaction Levels on the Use of Food Delivery Services

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1. ID 165 The Effect Of Financial Literation On Investing In Indonesia Capital Market (Study on College Students in Bandung City, Indonesia)

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ID 167 Preventing Stranded Coal Power Assets by Using Comparative Scenario of Energy Mixture and The SWOT Analysis of Energy Sector in Indonesia

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ID 168 Improving Mixing Process Quality for Sweet Soybean Sauce Using Full Factorial Design of Experiment

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ID 173 Developing Strategies for Improving Overall Equipment Effectiveness (OEE) Using Failure Mode And Effects Analysis (FMEA) And Fuzzy Analytical Hierarchy Process (FAHP)

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ID 174 Developing e-logistics system for Plastic Recycle in order to Enhance the Role of Community-Based Waste Bank

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ID 176 Influence of Price, Quality Of Service and Promotion toward Purchase Decisions at one Coffee Shop in Tangerang

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ID 178 Sustainability of Brand Equity of Business Management in Local Firm: Experience from Indonesia

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ID 179 Brand Communication and Service Quality Contribution in Building Brand Loyalty through Brand Trust in Indonesia's Garuda Airways

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ID 182 Net Zero Energy Building: Modeling and Techno-Environmental Evaluation of a Retrofitted Building

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ID 198 The Impact of Dynamic Capability as a Driver of Innovation Ambidexterity on MSMEs' Performance in Bali, Indonesia

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ID 199 The Influence of Investment and Wage Levels on The Human Development Index (Case 6 Province in Sulawesi) 2015-2019

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ID 200 The Effect of Job Resources Demand on Job Performance Through Work Engagement, which is moderated by Computer-Related Technostress

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ID 201 Value Proposition Canvas Validation: Measuring Customer Satisfaction of Photography Business

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ID 202 Competitive Advantage Strategy Implementation to Gain Customers Engagement and Brand Positioning

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ID 203 Product Development Assessment to Measure The Accuracy in Realizing Customer Expectations: Case Study in Ricebowl Small Business Hongmiao

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ID 204 Applications and Challenges of Adopting Internet of Things (IoT) in Reducing Road Traffic Accidents

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ID 205 Implementation of Global Sustainability Management in Micro Small Medium Enterprises of Undergraduate Students in an Entrepreneurship Major

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ID 206 The Coffee Shop Customer perception of product acceptances and willingness to pay of organic coffee Beverages: A case study from small business NgoopiKopi

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ID 207 Marketing Strategy to Introduce and Increase Sales of Korean Aesthetic Cake During the Pandemic: A Case Study of Small Cake business Hi Buy Keikeu

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ID 209 Marketing Strategy Analysis on Daily Crafts Accessories

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ID 210 Business Development: Excity Business Analysis – Kpop Themed T- shirt

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ID 212 Create and Develop Italian Food Business Opportunities with a Taste of the Archipelago at Sayeat.co

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ID 213 MARKETING STRATEGY FOR NEW BRAND FASHION: A CASE STUDY OF VAMODE FASHION BUSINESS

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ID 223 Technology Capabilities and Innovation Ambidexterity Impact on MSME Business Resilience during Covid-19 Pandemic in Bandar Lampung

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ID 224 Reforming CAD/CAM and CNC Machining Course by Using "Process-oriented" for Higher Education Institutes (HEI's)

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ID 227 Measuring the effectiveness of Healthy Values Brand Positioning Strategy: A Case Study of Healthy Bakery Café- Moose Bake Shop

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ID 228 Public Product during Pandemic: “MULTIFUNCTIONAL HYGIENE FACILITY”

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ID 229 Smart Trolley as Sophisticated Supermarket Facility in Covid-19 Pandemic Era

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ID 230 Designing Strategy for Meisterstadt Batam Apartment Unit Using SWOT and QSPM Method

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ID 232 A Proposed risk model for the halal supply chain

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ID 234 Layout Design of Distributor Warehouse PT. X in Sidoarjo

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ID 239 Quality Function Deployment (QFD) Approach for Digitalization of Teluk Lamong Terminal Services System in Support of Indonesia’s “Sea Toll” Program

Tri Wijaya N. Kusuma, Amanda N. Cahyawati, Sylvie I. Kartika Sari, Ahmad M. Iqbal, Deandra Denidaulia, Mohammad R. Kurnia, Nanda R. Amalia, Tazkiya A. Hanan, Irmala, Oktaviana Department of Industrial Engineering, Faculty of Engineering, Universitas Brawijaya, Malang, Indonesia

ID 247 Sea Toll Services Criteria Cluster Analysis to Minimize Price Disparity of Indonesian Eastern Areas amidst The Covid-19 Pandemic

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ID 249 Model of e-supply chain by Adopting Blockchain Technology in Salt SMEs in indonesia

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ID 252 Halal Operation Assessment using Quality Function Deployment in Indonesian Cosmetics Industry

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ID 253 Determining Promotion Media Based on Customer Characteristic using Cluster Analysis and Marketing Mix Strategy

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ID 254 Logistic Service Quality: An Approach Strategy for National Market Growth

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ID 255 Switching Intention of ATM Link to Digital Transactions in Responding Himbara's Bank New Policy: PPM Framework Perspective

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ID 256 Digital Industry Competition of Video on Demand Services: Technology Perspective and Consumer Behavior

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ID 257 Global Research Trends and Indonesia's Position in the Development and Application of Electric Trucks: A Literature Review

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ID 258 Market Feasibility Study for Conversion of Diesel-powered into Electric Truck

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ID 259 The Requirements for Predictive Maintenance Strategy and the Data Required for Successful Implementation, for the case of Nutrunners

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ID 260 The Designing of Swivel Chair For Bending Machine Work Station At Pt Graha Adikarya Logam

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ID 261 Halal Assurance System for Leather Industry in Indonesia: Future Research Directions

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ID 263 Modification of Chocolate Stirring Machine Using Reverse Engineering and VDI 2221 Method

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ID 264 Redesign of Smart Trash Bin with Reverse Engineering and VDI 2221 Method

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ID 265 Modification Of Potato Washing Machine By Adding Cutting Tool Using Reverse Engineering And Vdi 2221 Method

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ID 266 MODIFICATION DESIGN OF SHREDDER MASK WITH DISINFECTANT SPRAYER BY USING REVERSE ENGINEERING AND VDI 2221 METHODS

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ID 267 MODIFICATION OF GROUP HEAD COFFEE MACHINE USING REVERSE ENGINEERING AND VDI 2221 METHODS

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ID 275 The Pull and Push Factors Towards the Adoption of Agricultural Revolution 4.0 (AR4.0) for Agro-Food Supply Chain (AFSC) in SMIs Agro-based in Malaysia

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ID 277 Automating Inventory Management in Distribution Centers of a Leading FMCG Industry Player in the Beverage Market A Supply Chain 4.0 Journey

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ID 278 Indonesian Industrial Estate Firms Sustainability Conceptual Framework

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ID 279 Machine Productivity Improvement of the Test-To-Pack Process Line in the Production of SMD Power Inductors Using DMADV Approach and ProModel Simulation

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ID 281 Optimal Portfolio Using Single Index Model and Capital Asset Pricing Model (CAPM) in Covid-19 Pandemic Era

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ID 282 Empirical study of MOPSO and NSGA II comparison in multi-objective location routing problem incorporating the service level of delivery

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ID 284 Effect of Social Support on Elderly Welfare Using Structural Equation Modelling (SEM)

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ID 285 Simulation of Dynamic System to Assist Policy Formulation and Prevention and Mitigation Strategies Spread of COVID-19 in Medan

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ID 292 Selection of E-Grocery Platform Strategy in Highly Urbanized Cities in the Philippines Using Analytic Hierarchy Process (AHP) and Structural Equation Modeling (SEM)

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ID 295 Use of Internet of Things (IoT) in the Design of an Inventory Management System for Omni-Channel Retailing

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ID 297 Big Data Analytics Adoption Intention Among Small & Medium Enterprises in Malaysia : A Conceptual Framework

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ID 298 Lean – Agile Workforce Model for Traffic Enforcers

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ID 299 Development of a Framework for Household Solid Waste Management in an Urban Locality

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ID 300 Analyze the Proper of Instagram as the Trends of Social Media: Why do Young Entrepreneurs Choose It?

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ID 304 Performance Management System for Industrial Water Management Company Using Balanced Scorecard Model

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ID 320 Economic Ordering Policy of Deterioration Item with Time Varying Holding Cost under Backlogging and Permissible Delay in Payments

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ID 324 Heterogeneous Vehicle Routing Problem with Vehicle Dependent Travel Time for Urban Freight Transportation

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ID 327 What Makes Entrepreneurial Intention for Students in Technological University Works During Covid-19 Period: A Behavioral Assessment

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ID 331 The Use of Gamification Tools to Boost Students Engagement and Motivation

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ID 332 MedReS: A Charged Medication Report System for a General Hospital in the Philippines

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ID 334 Developed concept and approach of Engineering Design course in the Fourth Industrial Revolution (IR 4.0): A study case in Mechanical Engineering

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ID 342 Development of Chocolate Beverage Products by Considering Consumer Preferences

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ID 343 Design of Halal Assurance and Food Safety Tracking System on the Production of Palm Sugar

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ID 347 Health Vulnerability to CoVid-19: A Barangay Level Assessment for Bocaue, Bulacan

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ID 348 Indonesian Construction Sectors: An Analysis from the Economic Perspective

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ID 349 Inventory and Purchasing Analysis of Main Distribution Materials: Case Study in an Electrical Company Unit

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ID 350 A Case Study on Educational Level and Gender Differences on Academic Self-Concept of Student

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ID 351 Effects of Online Learning Capacity on the Academic Stress of Students: A Case Study during COVID-19 Pandemic

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ID 352 Perceived Effect of Home Environmental Factors to the Academic Stress of College Students: A Case Study during COVID Pandemic

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ID 353 A Case Study Measuring the Quality of Life of Students: Before and During COVID-19 Pandemic

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ID 354 Effects of Academic Stress on the Academic Performance of Students: A Case Study during Pandemic

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ID 357 Profitability, Liquidity, Advertising Cost and Firm Size Towards Tax Aggressiveness In Indonesia

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ID 358 The Effect of Leverage, Profitability, Sales Growth, and Thin Capitalization Towards Tax Avoidance on Service Companies in The Trade, Service, and Investment Sector Listed on The Indonesia Stock Exchange

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ID 361 **Queue System Analysis at Starbucks Stores**

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ID 363 **Analysis of Automatic Toll Gate Payment Queue System**

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ID 364 **Organic Food in Supply Chain: Literature Review**

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ID 367 **Enhancing Innovations through the Distance-Learning Studio: The Sociological Institutionalism Perspective**

Chrisna T. Permana, Paramita Rahayu, and Isti Andini, Urban and Regional Planning Programme, Faculty of Engineering, The University of Sebelas Maret, Kentingan, Surakarta, Indonesia

ID 369 **The Effect Of External Auditor Quality, Profit Quality, Fixed Asset Intensity, Liquidity, And Corporate Risk On Tax Aggressiveness Of Property And Real Estate Companies**

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ID 370 THE EFFECT OF CEO OVERCONFIDENCE, CAPITAL INTENSITY, ADVERTISING EXPENSE, AND BOARD GENDER DIVERSITY ON TAX AVOIDANCE

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ID 374 Analysis of Queue System Simulation on Banks with Arena System Modeling

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ID 377 Developing Simulation Optimization to Minimize Total Inventory Cost under Uncertain Demand

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ID 382 Ergonomic Assessment on the Mental Workload of Work from Home Employees

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ID 384 Sustainability Awareness and Attitude to Sustainability among Entrepreneurial Students: Cultural Analysis and Level Measurement

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ID 385 Queue System Analysis in Drive-Thru Swab Test of COVID-19 in A Hospital

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ID 388 Critical Success Factors of Asset Management Software Implementation in Construction Indonesia

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ID 390 Analysis of Workers' Physical and Mental Complaints in Conducting Online Meetings in the New Normal Era

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ID 391 Kansei Engineering and Design Thinking Methodology for Product/Service Design

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ID 392 Process Improvement of COVID-19 Vaccination System by utilizing Queuing Theory and ProModel Simulator on Vaccination Facilities in Metro Manila

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ID 394 Lean Six Sigma DMAIC Implementation to reduce Total Lead Time Internal Supply Chain Process

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ID 395 Working Posture Improvement on Batik Coloring Process using Rapid Upper Limb Assessment Method

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ID 396 A Strategy Design for Logistics Company: J&T Express Case Analysis Using Blue Ocean Strategy

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ID 397 Does it Pay to be Perfect? A Lesson Learnt from CV XYZ

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ID 398 Identification of At-Risk Behaviors among Fuel Station Consumers in Indonesia

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ID 400 Quality Improvement with the DMAIC Approach Using the Implementation of the Benchmarking and KPI Methods

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ID 402 Solar Renewable Energy Potential and Development in Malaysia, Indonesia, Vietnam and Japan

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ID 404 Cost Minimization of Feeds in RGS Hog Farm in the Philippines: An Operation Research Approach

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ID 405 Development Of Social Media Applications To Support Online Learning Of Computer Simulation Course

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ID 406 Improvement of AMG Rice Dealer Workplace Safety Using Ergonomics and Six Sigma Tools

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ID 412 Technical Analysis of Biomass Bamboo for Generating Electrical Energy Using APL Power Pallet

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ID 416 Developed SERVQUAL Model in Measuring Customer Satisfaction for Ferry Service in Langkawi

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ID 421 Some Forms of Single Stage Queuing Systems Resulted from The Decomposition of Complex Supply Chain

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ID 422 Hub Location Problem Model to Determine the Location of Facilities by Considering Capacity and Routes

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ID 427 Maintenance Management Analysis and Risk Assessment Using Failure Mode & Effect Analysis (FMEA) Method on Heavy Equipment Unit at PT XYZ

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ID 428 Supply Chain Risk Assessment Implementation Using Failure Mode and Effect Analysis (FMEA). Case study on After-Sales Product Support at Heavy Equipment Company

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ID 429 Sustainable Marketing Strategy: The Psychological Factors of Consumer

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ID 430 Marketing and Sustainability: The Concept of Green Awareness of Consumer

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ID 439 Investigating the Overall Equipment Effectiveness (OEE) of Die Casting Injection Machines using Productivity Analysis

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ID 441 Small Medium Enterprises in Indonesia: A Retrospective of The Research Journey

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ID 442 A Bibliometric Overview of Universal Basic Income Study

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ID 443 A Study of Tourism Publication in Indonesia Using Bibliometric Approach

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ID 444 Half-Century of the Development Policy Study in ASEAN: A Bibliometric Analysis

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ID 445 Fourth Industrial Revolution in Indonesia: Lesson from Literature Mapping through Bibliometric Review

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ID 447 Factors Affecting Vulnerability of Barangays to CoVid-19: A Study in Cebu City

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ID 448 Analysis Fluctuation of Stock Price of Mining Companies that Listed on Indonesia Stock Exchange Before and After Covid-19 Pandemic

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ID 455 Designing E-Business Startup: Potato Indofarm

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ID 456 The Role of Culture in Shaping Behavior of An Entrepreneurial Leader

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ID 458 Improving Safety Culture and Increasing Driver's Safety Awareness of Intercity Bus in The Greater Jakarta Area

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ID 461 Quality Improvement of Bolt Welding M6 X 12 with Six Sigma Method and Multi Attribute Failure Mode Analysis (MAFMA) In PT.A

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ID 464 Analyzing Factors that Impacts to Organizational Citizenship Behavior as a Part of Strategic Decision in Operation Management

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ID 466 Influence of Social Media Marketing, Word of Mouth and Advertising on Brand Awareness and Buying Interest (Case Study of Indihome Product)

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ID 467 Evaluation of Project Management Implementation Case Study: Environmental Phytoremediation Project in PT. Abadi Bersama Cahaya Indonesia

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ID 469 Public's Perceptions of Batik and How We Determine Marketing Strategy of Batik as Informal Attire

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ID 470 Optimization of Woven Fabric Production Process Using Multi Response Taguchi, GRA and PCA

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ID 473 Analysis Quality Control of TR 7864 Fabric Product Using Statistical Quality Control Method: A Case Study

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ID 474 Workload Analysis to Optimize Productivity of the Inspection Division

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ID 476 The Effect Of Perceived Ease Of Use Website And Internet Skills On Website Trust And Online Purchase Interest (Case Study Online Purchase on H&M Indonesia Website)

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ID 477 Household Behavior on Plastic Waste Separation in Indonesia

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ID 478 The Effect of Perceived Service Quality and Brand Trust on The Repurchase Intention of Online Ojek Consumers in The Covid-19 Pandemic: Study on GOJEK Consumers in DKI Jakarta

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ID 479 Plastic Component Nonconforming Analysis Using FMEA and Fishbone Diagram

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ID 490 A Conceptual Framework on Work-Related Road Safety of the Gig riders in Malaysia

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ID 493 Being a Sustainable Bank: The Case in Indonesian Banks

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ID 497 Improvement of Education Quality Using Quality Control Circle Methods Based on Fulfillment of ISO 21001 Requirements

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ID 500 Quality Improvement on Welding Process of Colt Diesel Cabin Using Six Sigma Method

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ID 503 Strengthening Local Economy through School Feeding

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ID 504 Supply Chain Performance Measurement with Method Scor Model in Service Company Haryadi Sarjono

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ID 506 Consumer Trust and Online Purchase Decision Study of Consumer Behavior on E-Commerce

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ID 507 Performance Improvement in Heat Exchanger Company using Lean Sustainable Manufacturing Approach

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ID 508 Supply Chain Improvement of Bearing Lathe Components to Increase Efficiency Using Lean Supply Chain at PT. HRS Indonesia

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ID 509 Halal Tourism Research

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ID 511 The Acceptance of IoT: Study on Consumer Behavior

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ID 512 The Effects of Store Atmosphere and Service Quality on Customer Loyalty (Case Study of a Coffee Shop in Tasikmalaya, Indonesia)

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ID 513 Effect Of Work Life Balance and Work Stress On Employee Performance (Study At Bank BJB Branch Tasikmalaya)

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ID 514 Factors Affecting Cocoa Pricing in West Pasaman District

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ID 515 Problem Based Learning in Online Class of Mass Transfer Operation Course

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ID 516 A Strategy to Realize Soybean Self-Sufficiency: A System Dynamics Approach (A Case in Central Java Province, Indonesia)

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ID 517 The Application of Cooperative Project-Based Learning in Engineering Drawing Course to Enhance Students' Teamwork Skills

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ID 518 The Social Design Techniques as Project Based Learning for Architecture Student

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ID 519 Project-Based Learning in Civil Engineering: Learning Experience from the Steel Structure Design Course at Universitas Sebelas Maret Indonesia

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ID 520 An Approach of Project Based Learning design for Autonomous Vehicle Course in Online Class

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ID 521 PDCA Analysis on Management Administration Information Based on Android in Resik Becik Semarang

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ID 522 Optimization of Artificial Intelligence in Telecommunication

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ID 523 Design Of Elderly Reading Chair To Decrease Musculoskeletal Disorders By Using Quality Function Deployment (QFD) Method

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ID 524 The Relationship between The Use of Personal Protective Equipment (PPE) With the Levels of Stress in Dentists During the Covid-19 Pandemic

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ID 525 Macroergonomic and Analysis Design (MEAD) for Permanent Shelter of Public Transportation

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ID 526 The Relationship between Corporate Governance and Financial Performance in the UAE Exchange Market

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ID 527 Assessment and the Difference of Mental Workload between Work from Home (WFH) and Work form Office (WFO) Using NASA-TLX (Case Study in PT KIC)

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ID 528 Formulation of Mathematical Model to Determine The Risk of Computer Vision Syndrome (VCS) in The Use of An Ergonomic Drawing Tablet Application in Writing Modre Characters

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ID 529 The Critical Variables for the Risk Assessment Associated with Pushing and Pulling of Wheeled Equipment in the Workplace: Subject Matter Expert Review

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ID 530 Personal Protective Equipment for Health Workers During a Pandemic: A Literature Review of Evaluation of Discomfort and Physiological Response

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ID 531 Design of Motorcycle Oil Performance Detector

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ID 532 Development of a Real-Time Ergonomic Assessment Tool to Minimize Musculoskeletal Disorders Risk

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ID 533 Assessment Comfortability of Climbing Stairs and the Height of Building Stair

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ID 534 The Potential and Challenges of Virtual Reality in Indonesia

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ID 535 A Genetic Algorithm Based Approach for the Maritime Inventory Routing Problem

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ID 536 An Economic Production Quantity Model for Smart and Connected Product with Upstream and Downstream Trade Credit

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ID 537 Toyota Production System in Aircraft Industry - A Case Study

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ID 538 Visual Fatigue Examination on Static and Dynamic Virtual Environment

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ID 539 Review of Objective and Subjective Methods for Rear-End Collision Risk Assessment

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ID 540 Usability Analysis of Tembang Sekar Alit Learning (SekARAI) Applications Using The Human Computer Interaction (HCI) Model In Bali Students

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ID 541 Factors Causing Train Driver Fatigue: A Systematic Review

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ID 542 Systematic Literature Review: Bibliometric Analysis of Green Consumer Behavior

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ID 543 Human-Side Emotional Service Design for Experience-Centric Amusement Park

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ID 544 Influence Safety Climate and Safety Behavior Against the Safety Behavior on Bus Rapid Transit Driver with Gender as Moderating Variable

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ID 545 Sustainability Assessment of Tourism Destination with Multidimensional Scaling Approaches

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ID 546 A DMAIC Approach in Improving Wafer Hairline Crack Detection Process at Chip Probe and in Reducing Overall Manufacturing Downtime

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ID 547 Analysis of Trucking & Transportation Services Performance Factors: A Lean and Green Paradigm Shift

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ID 548 Ergonomic Intervention with Dirgaswasam Modeling Combined with Exercise Prescriptions (DirgasExPres) Reducing Musculoskeletal Complaints in Dentists

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ID 549 Efficiency Analysis of Indonesian Schools: A Stochastic Frontier Analysis using OECD PISA 2018 Data

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ID 550 Quality Comparison for Online Transportation Services Using the Competitive Zone of Tolerance Based Importance-Performance Analysis

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ID 551 Supply Chain Risk Assessment at Poultry Slaughterhouses using House of Risk Method to Define Mitigation Action

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ID 552 Analysis of Gastroenteritis Incidence during the Covid-19 Pandemic on Shopping Center Employees

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ID 553 Lean Manufacturing Improvement Using ECRS and TRIZ Methods: Literature Review

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ID 554 Designing Performance Measurement System for Animal Feed Company Using Balanced Scorecard and

Analytical Hierarchy Process Method

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ID 555 Performance Measurement of Offshore Facility Maintenance Service Provider Using Quality Function Deployment

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ID 556 The Customer Satisfaction Analysis of the Cinema during Covid-19 Pandemic using the Kano Model in Indonesia

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ID 557 Product Packaging in Support of Consumer Loyalty

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ID 558 3D Printing Technology: A New Advancement for Modular Construction?

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ID 559 A Conditional Process Analysis on the Relationship between Work-Life Balance, Well-being, Job Satisfaction, and Work from Home Practice during the COVID-19 Pandemic

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ID 560 Study of Optimization Problems Associated With Technical Implementation of Drones in the Post-Pandemic Society

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ID 561 Systematic Literature Review: Puppet Implementation Digital Technology in Industry 4.0 era

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ID 563 Systematic Literature Review The Role of E-Commerce in Reog Ponorogo Art Crafters

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ID 564 The Art of Performing The Kecak Dance that Transformed into The Creative Industry: Systematic Literature Review

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ID 565 University Students' Mental Workload and Sleep Quality due to Online Lecture during Covid-19 Pandemic

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ID 566 Implementation of Preventive Maintenance on CNC Milling Tape Drill Machine at PT XYZ Using FMEA Method and Age Replacement

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ID 567 Ergonomic Risk Assessment of Musculoskeletal Disorders (MSD) During Chest Compression in Three Different Position In A Rescuer Performing Paediatric Basic Life Support

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ID 568 Evaluation of the Implementation of Fire Safety Management Based on Work Breakdown Structure for High-Rise Apartments

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ID 569 Improving Oil and Gas Wireline Log Data Quality Using Six Sigma Methods

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ID 570 Innovative Learning Era Industrial Revolution 4.0 in Optimizing 21st Century Competence Elementary School Students

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ID 571 How a Crisis Can Change Training Design: A Case Study on Principal Preparation Training in Indonesia

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ID 572 The Conservational Attitudes of College Students in Elementary Schools Teachers of Education Department on Online Lecturing

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ID 573 The Critical Thinking Skills of High School with Problem- Based Learning Model-Assisted Mind Map in Online Learning on Dynamic Fluid

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ID 574 Support Vector Regression (SVR) Model for Seasonal Time Series Data

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ID 575 Factors Affecting Family Resilience of Health Workers during the COVID-19 Pandemic: A Systematic Literature Review

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ID 576 The Level of Ability of Public Elementary School Teachers in Use Digital Technology-Based Learning Media during the Covid-19 Pandemic

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ID 577 Analysis of Students' Mathematical Problem-Solving Ability Based on John Dewey's Theory

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ID 578 The Cooperative Learning Challenges in Elementary School during Covid-19: A Report from Teachers in Yogyakarta

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ID 579 Vocational Education in Madrasah Aliyah in Central Java

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ID 580 Development of Online Module Based on Discovery Learning to Improve Critical Thinking Ability in Basic Concepts of Science at Primary School Teacher Education

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ID 581 Family Resilience and Mental Health during the COVID-19 Pandemic: Systematic Literature Review

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ID 582 Student Mathematical Representation Ability in Their Learning Habits during the Covid-19 Pandemic

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ID 583 Analysis of Students Critical Thinking Skills on the Limit of Algebraic Functions

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ID 584 Exploring the Kindergarten Preparedness in Facing New Normal Education Era

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ID 585 Cognitive Flexibility Categorization in Moral Dilemma Decision

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ID 586 Life Skills Education through the Heroic Values of the King of Kasunanan and the King of Mangkunegaran in Surakarta Folktales

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ID 587 Najwa Syihab's Speech Strategy in Mata Najwa Show on Metro TV From the Perspective of Community Education

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ID 588 The Analysis on The Transmission Pattern of Slawatan Pawijian as The Form of Cultural Conservation in Tamasri Pacitan

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ID 589 Mapping Science Teachers' Pedagogical Content Knowledge In Classroom Interaction Through Transcript-Based Lesson Analysis: A Case Study

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ID 590 Emergency Curriculum during COVID-19 Pandemic

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ID 591 Online Discussion Barrier in Indonesia: Does It Had The Same Walls?

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ID 592 Modeling Operations of CCPP Tambak Lorok, Based on Gas Fuel and Investment in CCPP Block 3

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ID 593 Value Added and Non-Value Added Activity Analysis in Disassembly Process for Productivity Enhancement during Covid-19 Pandemic

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ID 594 Study of RFID Technology Applied to Parts Distribution Center in the Utility Sector

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ID 595 The Implementation of the Tri Datu Concept of Socio-Cultural Ergonomic Oriented to Maintain Entrepreneurial Attitude of Workers on The Covid-19 Pandemic

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ID 596 Ergonomic Risk Assessment of Musculoskeletal Disorders During Simulated Endotracheal Intubation Using Direct Laryngoscopy and Video Laryngoscopy Among Doctors in Emergency and Trauma Department of a Teaching Hospital

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ID 597 Correlation Between Backpack Weight and Shoulder Pain in Children Aged 6-11 (A Case in Elementary School in Makassar Indonesia)

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ID 598 Risk Level for Manual Material Handling Activities Using Key Indicator Method in the Simulation of TPS Laboratory at Industrial Engineering, Diponegoro University

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ID 599 The Effect of Emotion Induction on Situation Awareness and Driving Performance

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ID 600 Work Posture Analysis Using Rapid Entire Body Assessment on Workers at AR Tailor Denpasar

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ID 601 Analysis of Persuasive Communication Strategies and Ergonomics Macro in an Effort to Reduce Workplace Accidents in PT. X Batam

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ID 602 The Optimization of Facility Location-Routing Decision Model for Municipal Solid Waste Network

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ID 603 The Effect of Intercultural Learning Challenges on Cognitive Load of Indonesian Students Abroad

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ID 604 Implementation of Kansei Engineering, Kano Model, and TRIZ in Improving the Quality of Fully Online Learning System

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ID 605 Analysis of Train Passenger Comfort Related to the Vibration and Heat It Creates

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ID 606 Perceived Usability Evaluation of MOLS (Mulawarman Online Learning System) During COVID-19 Pandemic Using System Usability Scale (SUS), Performance Measurement, and Thinking Aloud Methods

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ID 607 Identification of Occupational Health and Safety Management System Indicators Based on Indonesian Government Regulation Number 50 Year 2012 and ISO 45001:2018 on Safety Culture in EPC Projects

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ID 608 Ergonomic Risks Associated with Musculoskeletal Disorders in Ikat Weaving Workers in Letmafo Induk Village, Insana Tengah District, Timor Tengah Utara Regency

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ID 609 Macro Ergonomic Modeling in Instagram Usage Based on The Socio-Technical System Approach

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ID 610 Identification of Digitalization-Based Work Plans to Improve Time Performance in Railway Infrastructure Development Projects

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ID 611 Reviewing the relationship between Authentic Leadership, Employee Engagement, and Organizational Innovation: Telecommunication Sector in Malaysia

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ID 612 The Feasibility Level of The Infrastructures and Facilities of the Vocational Engineering Workshop in Palembang

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ID 613 Students' Perception toward Videoconference as the Mode of Teaching English Speaking for Presentation

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ID 614 Students' Perceptions and Attitudes in Waste Management: The Role of Internet Literacy and Sustainability Programs

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ID 615 Hybrid Metaheuristics for Solving Vehicle Routing Problem in Bulk Cement Distribution

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ID 616 Factors Affecting Parental Psychological Flexibility during Pandemic COVID-19: A Systematic Literature Review

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ID 617 Improving the Critical Thinking Skills by Using the Discovery Learning Model Based on the Ethnoscience of the Patiayam Site

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ID 618 The Framework of Information Distribution in Project Communication System of Quality Culture in Construction Companies to Reduce Construction Failure Levels

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ID 619 Framework of Leadership System in Improving Quality Culture in Indonesian Construction Company to Reduce Construction Failure

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ID 620 Evaluation of Information System Implementation on Civil Registration Service at Surabaya, Indonesia (Case Study: Birth Certificate Service)

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ID 621 Comparison of Quick Exposure Check (QEC) and Nordic Body Map (NBM) in Traditional Broom Workbench Design

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ID 622 Ergonomics Assessment for Wearable Elbow Exoskeleton Prototype

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ID 623 A Framework of University Internship Information System with Web-Based Design Analysis

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ID 624 Evaluation of the SM-8018 Shima Ergono Wheelchair Product Prototype Design Based on Quality of Life and Ergonomic Function Deployment

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ID 625 Experimental Design of Baby Food Advertisement in Social Media

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ID 626 Designing Strategies to Anticipate Circular Economy Barriers in Furniture Industry

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ID 627 Designing Sustainable Procurement System Based on Enterprise Resource Planning

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ID 628 Application of Occupational Health and Safety (K3) in Agrotourism

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ID 629 Effective Workplace Stretching Exercise for Decreasing Musculoskeletal Disorders in Ndao Ika weavers in Rote Ndao Regency

Serlien A Luik, Jacob M Ratu and Agus Setyobudi, Faculty of public health, Nusa Cendana University

ID 630 Independent Design of the Legalization Office by Applying Activity-Based Flexible Office Concepts

Muhammad Fadhil Farras and Hartomo Soewardi, Industrial Engineering Department, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta, Indonesia

ID 631 Designing Sustainability Accounting and Dashboard Monitoring Based on Open ERP using Quickstart Approach

Putu Priyanka Sonia Dewi, Ari Yanuar Ridwan and Umar Yunan Kurnia Septo H, Information System Department School of Industrial Engineering, Telkom University, Bandung, 40257, Jawa Barat

ID 632 Development of Web-Based Occupational Safety and Health Management Information System (OSH-MIS) at Engineering Faculty of Diponegoro University

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ID 633 Cognitive Differences between Senior and Younger Worker: A Mental State Examination

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ID 634 Occupational Health and Safety in Classroom Facilities Layout When New Normal at Bali International University

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ID 635 Ergonomic Approach on Rail Industry Workers Using Rail Ergonomics Questionnaire

Dian Palupi Restuputri, Angelie Rekha Elvera, Adhi Nugraha, Ilyas Masudin, Industrial Engineering, University of Muhammadiyah Malang, Malang, East Java, Indonesia

ID 636 Survival Strategies for Small and Medium Enterprises (SME's) Due to the Covid-19 Pandemic Through Supply Chain Management: A State of the Art Literature Review

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ID 655 Measuring the Risk Level of Retail Sector for COVID-19 Infection

Jhon Lawrence G. Quimio, Maria Angelica D. Bare, Francee Mae F. Castro, and Ma.Janice J. Gumasing, School of Industrial and Engineering Management, Mapúa University, Intramuros, Manila

ID 656 COVID Risk Assessment: A Case of Employees in Academic Sector

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ID 658 Understanding Heterogeneity in CRM Chatbot User Preference

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ID 661 Residential Swimming Pool Design with Smart Lighting System

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ID 662 Solar Powered Swimming Pool with Smart Lighting System

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ID 675 Forecasting The Spread of Covid-19 Disease Patients to Allocate The PPE for Medical Hospital Staffs in Indonesia

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ID 697 Techno-Economic Feasibility Analysis of Agricultural Drone Business in Indonesia

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ID 702 Heuristic Algorithm to Minimize Maximum Lateness for Job-shop Scheduling Problem in Automotive Industry

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ID 703 The Influence Of Good Corporate Governance, Audit Quality, Profitability, And Leverage On Financial Statement Integrity (Empire Study On Basic Industry & Chemicals Manufacturing Companies In Bei):

Saiful Anam, Nurrohman Hari Mulyono, Inuk Wahyuni Istiqomah, Ade Setia Pratama, Ahmad luthfi, Putri Ambarwati, Accounting Study Program, Faculty Economy, STIE Al Anwar Mojokerto, Indonesia

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ID 704 Effect of Good Corporate Governance, Profitability, Firm Size, and Intellectual Capital on Company Value (Empirical Study of NON-Financial Companies LQ45 Index Listed on Indonesia Stock Exchange)

Nurrohman Hari Mulyono, Saiful Anam, Inuk Wahyuni Istiqomah, Ade Setia Pratama, Rizki Arvita, Risa Mayasari, Munzidahtul Aidha, Accounting Study Program, Faculty Economy, STIE Al Anwar Mojokerto, Indonesia

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ID 705 Risk Management for Frozen Food Halal Supply Chain (an Indonesian Company Case Study)

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ID 707 Analysis and Design of Precast Concrete Product Quality Improvement at PT. XYZ using the DMAIC and FMEA Method

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ID 708 The Effect Of Strategic Flexibility, Strategic Innovation, Job Satisfaction And Employee Performance In The Covid-19 Pandemic: Study On Small And Medium Clothing Industry In East Java Province

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ID 710 Utilizing Local Wisdom Community towards a Healthy Food Industry: a Preliminary Research of Torbangun Leaves Biscuit

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ID 711 Warehouse Arrangement Improvement Based on 5S Method for CV Javatech Agro Persada

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ID 715 Factors Influencing the SME Performance in The United Arab Emirates

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ID 716 The Relationship Technological, Organizational, and Environmental Factors, Social Media Adoption and SMEs Performance

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ID 725 Factors Influencing SME Performance: The Mediating and Moderating Role of Social Media Adoption and Organizational Culture

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ID 726 Communication Skills during Online Learning among Business Students: Does it Match with Business Case Method?

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ID 731 MANAGEMENT EDUCATION IN INDIA – PAST, PRESENT, AND FUTURE

DR. REKHA PRASAD, RETIRED PROFESSOR, IM BHU

ID 732 Industrial Management In Engineering Education At ENSA-Kenitra, UIT, Morocco

Laila El Abbadi, Professor, Department of Informatics, Logistics and Mathematics, Head of Industry, Logistics, Data Analysis and Protection Research Group, National Schools of Applied Sciences of Kenitra, Ibn Tofail University, Kenitra, Morocco, Faculty Advisor, IEOM Ibn Tofail University Chapte

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ID 734 Six-Sigma and Industry 4.0: a Synergy

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ID 735 Welding Training Simulation using Virtual Reality with Multiple Marker Tracking Method

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