FBM UITM CAWANGAN KEDAH Insights

UiTM Cawangan Kedah

Universiti Teknologi MARA | Faculty of Business and Management

UiTM di hatiku

VOLUME 6

2022

eISSN 2716-599X

e-ISSN 2716-599X

FBM INSIGHTS

Faculty of Business and Management

Universiti Teknologi MARA Cawangan Kedah

e-ISSN 2716-599X

The editorial board would like to express their heartfelt appreciation for the contributions made by the authors, co-authors and all who were involved in the publication of this bulletin.

Published by : Faculty of Business and Management,
Universiti Teknologi MARA Cawangan Kedah

Published date : 10th November 2022

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RECTOR'S MESSAGE

Congratulations Faculty of Business and Management of Universiti Teknologi MARA Cawangan Kedah, Kampus Sungai Petani on the publication of the 6th Volume of FBM Insights!

I am very pleased to know that there are more than 40 authors and more emerging issues are being presented in this latest volume of FBM Insights. This portrays that UiTM Kedah Branch is actively involved in disseminating business related information and knowledge to the public.

I hope this bulletin can provide an opportunity for the Faculty of Business and Management staff to produce more academic materials and develop their skills in academic and creative writing. Furthermore, more initiatives should be launched to support this life-long process.

Again, well done to the Faculty of Business and Management and those who were involved directly and indirectly with the publishing of FBM Insights Vol.6. I wish FBM Insights all the best and continue to grow and move rapidly forward in the future.

Prof. Dr. Roshima Haji Said
Rector
Universiti Teknologi MARA (UiTM)
Cawangan Kedah

السلام عليكم ورحمة الله وبركاته

Assalamualaikum warahmatullahi wabarakatuh

Welcome to the 6th Edition of FBM Insights 2022. This edition boasts 40 articles by the academics of Faculty of Business and Management UiTM Kedah Campus. The topics involved a broad range of business and management knowledge. Congratulations to all authors for your endless support and valuable contribution to the newsletter.

FBM Insights was mooted in 2020 and it came about with the intention to encourage and improve research writing activities among the lecturers of UiTM Kedah's Business and Management Faculty. As the editions progressed, the support from the academics has not faltered. I hope the support continues in editions to come.

I would like to congratulate the editors and the committee for the hard work and perseverance in managing the newsletter. All the best to everyone and thank you again.

Dr. Yanti Aspha Ameira Mustapha
FBM Insights Advisor

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WHAT IS INDUSTRY 5.0? THE NEXT MANUFACTURING REVOLUTION

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Industry 4.0, sometimes referred to as the Fourth Industrial Revolution, has been taking place around the globe since the middle of the 2010s. This revolution, according to the World Economic Forum (2017) is defined by the combination of artificial intelligence (AI), advanced robotics, additive manufacturing (3D printing), and the Internet of Things (IoT) to make manufacturing more efficient.

Future industrial revolution is entering a new phase through machine learning and the skills it produces. Industry 5.0, as some experts have already named it, is well under way, with AI-powered platforms and tools have taken over the monotonous, low-value jobs that would otherwise reduce human productivity. Here's the look and impact of Industry 5.0, and how machine learning is driving towards this change (Britt, 2022).

ARE WE EXPERIENCING INDUSTRY 5.0?

Some experts said the arrival of COVID-19 pandemic has accelerated the transition to Industry 5.0. The Vice President of Manufacturing, Technology, and Innovation of Jabil, Gamota (2020) stated that the Fifth Industrial Revolution is changing from being primarily focused on the digital experience to one in which humans are once again in control. He affirmed that "the outcomes will blend human critical and creative thinking with the competence and speed of automation."

According to the European Union, Industry 5.0 would stress "the wellness of the worker" and approach the industrial industry from a social perspective. The new industrial revolution will be human-centric as reducing carbon emissions is necessary and workers need to find new methods to interact, participate, and accomplish their task. We are already seeing the symptoms of this transformation to some extent. In what is now referred to as the "Great Resignation", approximately 20 million workers voluntarily left their jobs between April and August of 2021. These employees reported burnout and stress as two primary reasons for their leaving. Many workers require time off to refocus and recharge, while others have to deal with stress at home from caring for family members, home schooling their children, or attempting to deal with feelings of loneliness (Britt, 2022).

INDUSTRY 5.0 IN MANUFACTURING

Industry 5.0 allows customers to get products and services according to their standards and specifications. By utilizing AI, the sector is now able to follow a suitable manufacturing process and realize the concept of personalization. By giving "design freedom," it improves manufacturing

capacity and allows for more customized items. This revolution is helpful for processes related to automation and manufacturing, in line with the vision of the modern manufacturing industry, which is to make a specialized and better job, as well as to improve human touch to manufacturing with new technological advancements.

Industry 5.0 employs robots with human brains, which has the potential for rapid development. Thus, an industrial robot is an essential component of Industry 5.0, and they will be used for making personalized products on a mass scale. It automates the entire manufacturing process and enables a new production method. Featuring collaboration between human beings and machines to meet customer needs, it also uses intelligent software applications to interact with humans in shared workplaces. The main purpose of this simulation in the industry is to use the mechanical capacity for high-quality and mass accurate productions. It is designed to flexibly meet the changing needs of the market as well as the latest demands.

Industry 5.0, as the re-humanization of the race towards automation, is advanced in playing its significant role to fulfil the personalized requirement of customers. With the diversity of these revolutionary features to increase customer satisfaction, here, various information technologies are applied to increase machine effectiveness and successfully complete the necessary task time and cost optimization. Improvements in design, procedure, and operations have been made that were previously difficult to achieve. This provides a flexible approach for continuous improvement in manufacturing. The required business goals are easily achievable with an overall improvement in the system (Javaid and Haleem, 2020).

CONCLUSION

The primary purpose of Industry 5.0 is to apply creative personalized experience to fulfil personalized demand. With the least amount of human efficiency and productivity, it enables humans to manufacture something distinctive. Industry 5.0 uses smart facilities interconnected with the cloud server and provides a new industrial framework. These Industry 5.0 technologies are entirely computerized, which enables them to perform manufacturing with optimization of time. The advancement of this revolution is to anticipate errors and speed up the manufacturing process, much like human intelligence. It has a positive impact on the environment with renewable energy and the ability to reduce waste. The network of physical devices and other information technologies like the Internet of everything is connected to exchange the data. These technologies have improved the functionality and efficiency of the manufacturing system. All data is recorded digitally to ensure sustainable interoperability. This revolution has a significant impact on efficiency, product life cycle, service, and business model by providing good interaction between humans and machines. It uses a smart machine with intelligence to automate the production process. This revolution reinforces its role in providing innovative ideas into manufacturing and other areas. In future industries, digital manufacturing and information technology will be the backbone of manufacturing systems. With the help of these digital technologies, a connected environment will help the production system to run successfully.

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