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# RMU e-Bulletin



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**Research Management Unit**

Universiti Teknologi MARA Cawangan Kedah

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# Embracing Innovation and Discourse: A Message from the Rector



Esteemed colleagues, students, and friends of UiTM Kedah Branch,

I am pleased to announce the launch of the second edition of the **RMU4U E-Bulletin**. This publication showcases the intellectual energy and a wide range of expertise that have bloomed within our esteemed university.

The 38 articles presented in this issue exemplify a remarkable spectrum of scholarly inquiry. From insightful legal studies to captivating cultural reflections, from thought-provoking discussions on business and finance to explorations of the ever-evolving technological landscape, the **RMU4U E-Bulletin** offers a glimpse into the minds that are shaping the future. This e-bulletin is more than just a collection of articles; it is a platform for discourse, a springboard for critical thinking, and a catalyst for innovation. By engaging with the diverse perspectives presented here, we can cultivate a deeper understanding of the complex issues facing our world today.

I am particularly heartened by the focus on the transformative power of technology. Discussions on Industrial Revolution 5.0 and the integration of AI serve as crucial reminders of the need to embrace innovation and equip ourselves with the skills to navigate the rapidly changing landscape. The articles on learning methodologies, from self-directed learning to mobile-assisted language acquisition, further underscore UiTM Kedah's commitment to providing our students with the tools and resources they need to thrive in the 21st century.

To our esteemed contributors, I extend my sincere gratitude for sharing your valuable insights and expertise. Your dedication is what fuels the intellectual engine of our university.

To our readers, I encourage you to delve into the articles, engage with the ideas presented, and later share your perspectives. Let this e-bulletin be the spark that ignites lively dialogues and fosters a culture of continuous learning within our university community.

Together, let us leverage the power of knowledge and innovation to shape a brighter future.

Sincerely,

*Prof. Dr. Rohima Sa'id*

Rector, UiTM Kedah



# A Message from the Chief Editor

Dear Readers,

Welcome to the second issue of the RMU4U E-Bulletin from UiTM Kedah. I am excited to present 38 insightful articles that showcase the diverse academic interests and expertise within our university. Each article brings a unique perspective, contributing to a rich array of knowledge and ideas.

In this issue, our contributors have explored a wide range of subjects. We have compelling legal studies on topics such as home-schooling and child marriage, alongside cultural reflections that delve into the Semai heritage and contemporary Malaysian art. These pieces highlight the importance of preserving and understanding our cultural and societal norms.

Our business and finance section offers fresh insights into the gig economy, the integration of AI in accounting, and the nuances of tax compliance. These articles provide a closer look at the evolving economic landscape and the challenges and opportunities it presents.



Technological innovation is another prominent theme, with discussions on Industrial Revolution 5.0, the critical role of information professionals, and the integration of AI in education. These articles underscore the rapid pace of technological change and its impact on various sectors.

We also feature thought-provoking pieces on self-directed learning, mobile-assisted English learning, and the transformative power of social media in libraries. These articles explore the intersections of technology, education, and communication, offering valuable insights into modern learning environments. Our goal with this e-bulletin is to foster a deeper understanding and spark meaningful conversations among our readers. We hope that the knowledge and ideas shared here will inspire and engage you.

A heartfelt thank you to all our contributors for their hard work and dedication. And to our readers, thank you for your continued support and interest in the RMU4U E-Bulletin.

Happy reading!  
Warm regards,

Dr Azyyati Anuar  
Chief Editor, RMU4U E-Bulletin



# ADJUSTING TO INDUSTRIAL REVOLUTION 5.0: CHANGING JOB ROLES

**Nor Famiza Tarsik**

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The progression towards Industry Revolution 5.0 (IR5.0), the upcoming frontier, is now in progress. This transformative phase is positioned to highlight the harmonious interaction between humans and technology, allowing individuals to fully utilize their skills while enhancing safety, productivity, and meaning in the workplace.

Anticipated progress in IR5.0 encompasses the incorporation of cutting-edge technology like artificial intelligence and robotics, facilitating novel modes of cooperation between humans and machines. IR5.0 is now transforming the global economy, bringing about significant changes in industries, and altering the concept of employment. As modern technologies such as artificial intelligence, automation, digitalization, and robots are more and more incorporated into different industries, the transformation of employment occupations experiences significant alterations (McKinsey, 2017).

The emergence of new job professions is facilitated by the implementation of IR5.0 as a system model. This model utilizes AI technology to promote these professions through notifications, alerts, and personalized recommendations. By adopting this approach, businesses can enhance their chances of survival and sustainability (Abdullah, 2021).

IR5.0 will prioritize cooperative endeavors by including both humans and machines. Employees will receive training to improve their skills, resulting in significant adjustments and personalized experiences for each client. The objective of IR5.0 is to enhance the capabilities of manpower while simultaneously addressing the evolving requirements for skills and training among employees. It enhances industry competitiveness and simplifies the process of attracting highly skilled individuals.

In addition to enabling technologies, the IR5.0 enabling technologies can be subdivided into clusters of emerging technologies (Ghobakhloo, 2023). The advent of IR5.0 introduces a plethora of novel employment vocations that were unimaginable during earlier industrial revolutions. The enabling technologies of IR5.0 comprise information, digital, and operational technologies that propel the ongoing and forthcoming digital revolution within the framework of IR5.0.

The IR5.0 not only generates new job professions but also drives the conversion of conventional jobs in several sectors. The enabling technologies of IR5.0 encompass digitalization, information, and operational technologies that jointly drive the enduring and future digital revolution within Industry 5.0. (Xu, 2021).



This helps to enhance their knowledge and skills, leading to better healthcare results. An analysis, based on the January 2017 MGI report, has evaluated the quantity and nature of employment opportunities that could emerge under various scenarios until 2030 and compared them with the ones that could potentially be displaced by automation. Robotics that have predetermined programming will be substituted with adaptable AI-driven frameworks that incorporate synergistic robotics, facilitating communication between humans and machines. This synergistic human-machine approach will result in enhanced efficiency and mitigate operational faults.

According to McKinsey (2020), it is crucial to note that a substantial amount of employment will undergo changes rather than being destroyed. Only a small fraction, less than 5 percent, of vocations can be completely automated. Instead, what we are more likely to witness are substantial alterations in the combination of tasks that constitute a typical work day.

The importance of digital skills is paramount in the context of job vocations advancing in the era of IR5.0, as they serve as a crucial factor in determining one's employability and career achievements. Proficiency in programming, data analysis, digital marketing, and cybersecurity is becoming more and more valuable in various sectors. In addition, the digital age and workplace innovation require individuals to possess important skills such as adaptability, creativity, problem-solving, and collaboration. According to Carayannis and Morawska-Jancelewicz (2022), digitalization offers new opportunities for academic institutions and can be a major catalyst for their transformation.

In brief, the progression of employment professions in the era of IR5.0 is characterised by the advent of new responsibilities, the transformation of traditional occupations, and the increasing importance attributed to digital competencies.

The empowering technologies of IR5.0 encompass digital, information, and operations technologies. These technologies jointly drive the enduring and future digital transformation within IR5.0 (Ghobakhloo, 2023). As organizations adopt sophisticated technologies and digital advancements, the workforce must continuously adapt and enhance their skills to be relevant and competitive. To leverage the opportunities brought by IR5.0 and create a future where human potential thrives alongside technical progress, society can invest in reskilling programmes, cultivate a culture of lifelong learning, and advocate for digital literacy.

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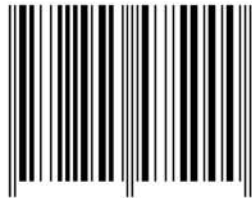
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