

IMPACT REPORT 2022

INDUSTRY, INNOVATION
AND INFRASTRUCTURE

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



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CORPORATE DATA CENTRE



UNIVERSITI
MALAYA

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FOREWORD BY ASSOCIATE VICE-CHANCELLOR (CORPORATE STRATEGY)



The Sustainable Development Goals (SDGs) has transformed the landscape of the higher education sector on a global scale. These 17 goals have become a primary reference framework in many institutions' planning of education & learning, research & innovation, as well as strategic partnerships strategies.

The publication of the 17 Universiti Malaya Impact Reports 2022 is crucial to monitor our efforts towards SDGs as we are advancing our excellence through the implementation of the UM Strategic Plan 2021-2025, UM Transformation Plan 2021-2030, and UM Sustainability Policy 2021-2030.

For many years, UM has integrated the SDGs into our leadership, university policies, curriculum activities, RDCIE initiatives, values, investments, and strategic partnerships with stakeholders to demonstrate that UM also “walks the talk.” These efforts involve active engagement from our staff, students, and the broader community of stakeholders and alumni.

Congratulations to the team at the Corporate Data Centre for formulating data-driven comprehensive reports that will serve the University in becoming a Global University Impacting The World.

PREFACE BY DIRECTOR OF THE CORPORATE DATA CENTRE



I am delighted to present all 17 Universiti Malaya Impact Reports for 2022, which review the data related to the Sustainable Development Goals (SDGs) and showcase UM's achievements in 2022. The 17 SDGs serve as a guide for addressing the most pressing issues and critical challenges. Each of the 17 SDGs demands strong collaborative efforts from all levels of society to ensure a more resilient and sustainable future for the next generation.

In the Corporate Data Centre, we apply knowledge and data analytics skills to make informed, evidence-based decisions. This not only helps address current challenges but also ensures preparedness for the future.

These 17 Impact Reports for 2022 are flagship reports designed to assist the University in monitoring and examining our contributions to the country's progress in achieving the 17 SDGs.

I would like to seize this opportunity to express my deep appreciation to my team, who have worked tirelessly to collect and analyse data, enabling us to effectively monitor UM's sustainability efforts. I am also sincerely grateful for the support from UM's top management and the hard work of all colleagues across campus, particularly the Sustainable Development Centre, data managers, and controllers, for their cooperation in providing the SDG data for 2022.

OUR IMPACT IN 2022



24 assistance programs empowered **10694** students in their academic journeys.



12 impactful food assistance programs, including free food, food banks, vouchers, and affordable options, eliminated hunger on UM campus.



Over **20** outreach programs delivered essential health services to local communities in need and refugees.



47 enriching courses featured in the 2022 Short-Term/International Training/Study Tour, part of UM Course Buffet to support lifelong learning.



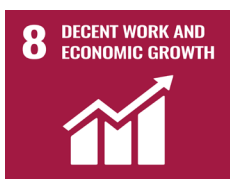
55% Female representation in senior positions



429 participants took on 7 weeks of water conservation challenges during the Kita Jaga Air Challenge 2022.



UM subscribed to the Green Electricity Tariff (GET) program, generating **5.5** million kWh of clean energy



Precision Intervention Program for selected students to produce future-ready graduates enriched with UM DNA.

AIM OF THE GOALS

SDG 1: End poverty in all its forms everywhere

SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture

SDG 3: To ensure healthy lives and promote well-being for all at all ages

SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

SDG 5: Achieve gender equality and empower all women and girl

SDG 6: Ensure availability and sustainable management of water and sanitation for all

SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for al

SDG 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation

SDG 10: Reduce inequality within and among countries

SDG 11: Make cities inclusive, safe, resilient and sustainable

SDG 12: Ensure sustainable consumption and production patterns

SDG 13: Take urgent action to combat climate change and its impacts

SDG 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development

SDG 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

SDG 16: Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

SDG 17: Strengthen the means of implementation and revitalize the global partnership for sustainable development

The development of the Industrial Relations Strategic Planning Framework - Industry University Hyper Engagement Collaboration Framework (INSIGHT)

The publication of the First E-Magazine for Persons with Disability by The Secretariat AUN-DPPnet.

The establishment of UM Master Plan document to guide the university towards achieving a Carbon-Neutral Campus by 2050.

9 initiatives conducted by the Zero Waste Campaign to establish an integrated solid waste management system

The establishment of UM Carbon Neutrality Acceleration Living Labs to contribute to the university's carbon-neutral performance.

In 2022, Project Pulih joined forces with RHB ISLAMIC to protect Malaysia marine ecosystems.

Rimba Ilmu, or Forest of Knowledge, covers 40 hectares and contains an estimated living collection of around 1,700 species of plants.

UM as the first university in Malaysia to conduct campus elections fully run by students.

UM as part of 28 Global Network Memberships, has International Partners based in UM, and 96 Academia-Industry Collaborations.





Overall Ranked
in band
101-200 /1591

From band **201-300** in 2022



Ranked
50/876
From **201-300**
in 2022



Ranked in band
101-200/647
From band **201-200**
in 2022



Ranked in band
101-200/1218
From band **201-300**
in 2022



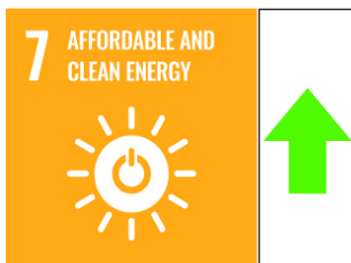
Ranked in band
101-200/1304
From ranked **79**
in 2022



Ranked
3/1081
From ranked **51**
in 2022



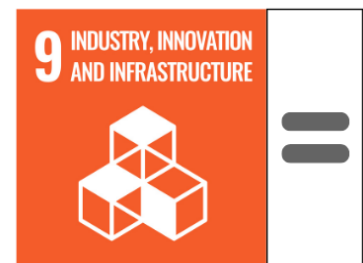
Ranked
60/702
From band **201-300**
in 2022



Ranked
13/812
From **201-300**
in 2022



Ranked in band
401-600/960
From band **401-600**
in 2022



Ranked in band
201-300/873
From band **201-300**
in 2022



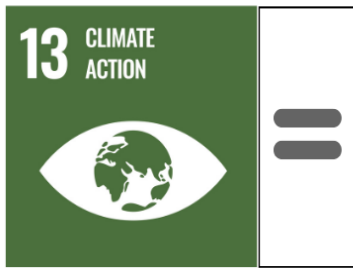
Ranked in band
201-300/901
From band **101-200**
in 2022



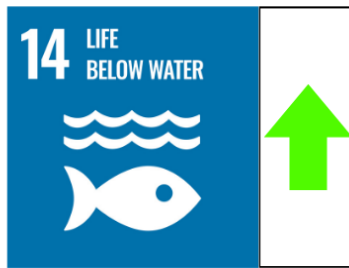
Ranked
72/860
From **101-200**
in 2022



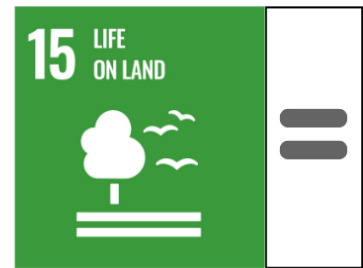
Ranked
73/674
From **201-300**
in 2022



Ranked in band
101-200/735
From band **101-200**
in 2022



Ranked
85/504
From **101-200**
in 2022



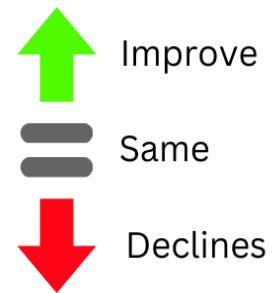
Ranked in band
101-200/586
From band **101-200**
in 2022



Ranked in band
101-200/910
From band **201-300**
in 2022



Ranked
81/1625
From **301-400**
in 2022



Advancing SDG 9: INDUSTRIAL PARTNER- SHIP FOR SUSTAINABLE ECONOMIC GROWTH

Universiti Malaya aims to tackle complex challenges such as clean energy, healthcare and environmental issues through its partnerships with industry players. This collaborations create a dynamic synergy that not only benefits society but also prepares the workforce of tomorrow to address global sustainability issues.

UM COLLABORATIONS WITH INDUSTRY LEADERS TO- WARDS ACHIEVING SDGS IN 2022

In 2022, Universiti Malaya (UM) embarked on numerous strategic collaborations with industry players to advance its research towards commercialisation. Below are some of the successful collaborations conducted with both domestic and international industry stakeholders throughout the year 2022.

UM AMMP CENTRE AND 3D GENS SDN BHD

The collaboration of AMMP Centre with 3D Gens Sdn Bhd has started from several years ago. The high-tech company is a pioneer of metal additive

The collaboration of AMMP Centre with 3D Gens Sdn Bhd has started from several years ago. The high-tech company is a pioneer of metal additive manufacturing and 3D printing solutions in the country. Starting as an industrial partner in the MOU under the Konsortium Kecemerlangan Penyelidikan (KKP) programme in 2020, 3D Gens has since then worked together with the Centre to conduct industrial seminars, joint research studies, consultations, and talent development in prototyping and metal 3D printing.

In 2022, the company has further assisted AMMP Centre in 3D scanning to digitize components for rapid manufacturing of spare parts. In this collaboration, existing parts and

components can be accurately captured in digital form using their advanced blue laser scanning facilities and uploaded into CAD software for subsequent modelling operations. In addition, the company has also welcomed Mechanical Engineering students to visit their engineering facilities at the Perindustrian Tekno Jelutong, Shah Alam, to personally witness the procedural approach undertaken by the company's engineers in designing and producing additive manufactured components.

CENAR'S AND UM PHARMAUJI SDN BHD

In the year 2023, CENAR has made a significant breakthrough by establishing a productive partnership with UM Pharmauji



Sdn Bhd, an industry network dedicated to showcasing research outputs by transforming them into marketable products. This collaboration aims to bridge the gap between researchers and the outside industry, allowing valuable research findings to reach a wider audience.

To kickstart this exciting collaboration, CENAR and UM Pharmauji joined forces to participate in the prestigious UM Research Carnival 2022, held at the esteemed IPPP, UM. At this remarkable event, our teams proudly unveiled a range of innovative products, including Lotion, Cream, Infusion, Chocolate, and Hand Sanitizer. Although these products are still in the prototyping phase, they have garnered overwhelmingly positive responses and garnered valuable feedback. The success of our prototype products has even attracted the attention of the Minister of Higher Education, the esteemed YB Dato' Seri Mohamed Khaled Nordin. His unwavering support for our endeavours is evident as he personally tried some of our groundbreaking products. This recognition from such a prominent figure further emphasizes the potential and significance of our research findings.

By collaborating with UM Pharmauji, researchers at CENAR are now equipped with the necessary resources and expertise to develop their research findings into market-ready products. This collaborative effort not only empowers researchers but also fosters an environment where innovation can flourish. The synergy between CENAR and UM Pharmauji acts as a

catalyst, propelling research outcomes towards commercialization, thereby making a tangible impact on society. With this fruitful partnership, the gap between researchers and external industries is significantly reduced. Researchers can now explore the commercial potential of their work, translating theoretical knowledge into practical solutions that cater to the needs of the market. This mutual cooperation fosters a seamless exchange of ideas, knowledge, and expertise between academia and industry, paving the way for future collaborations and groundbreaking discoveries.

CENTRE OF PRINTABLE ELECTRONICS (CPE) COLLABORATES WITH MIMOS BHD AND UMCH TECH SDN. BHD.

Centre of Printable Electronics (CPE) collaborates with MIMOS Bhd. to enhance biosensor development by utilizing printed electronics technology. The main collaboration objective is to research the feasibility of having a printed biosensor as a marketability product and to develop the product with commercialization in mind. Recent collaboration activities take place at the MIMOS laboratory in Bukit Jalil on the 24th of May 2023. During the activities, participants from the CPE are tasked to design the biosensors, while the industrial partner, MIMOS Bhd., printed the designed circuits. An integrity test was performed afterward, and the improvement of the design and manufacturing process enhancement were discussed. Overall, the research activities will be extended for several more sessions for further improvement.

Apart from MIMOS Bhd., CPE collaborates with UMCH Tech Sdn. Bhd. to integrate the data generated from the sensor into cloud storage for further analysis and monitoring. The sensor design by our researchers is not limited to biosensors, as such, collaboration with Havva Sdn. Bhd. and MPOB Bhd. is initiated to expand the usage of the sensors in the agriculture field, mainly to develop fully integrated sensors for precision agriculture. Collaboration with Teroglobal Sdn. Bhd. is focused mainly to seek expertise in the design of electronic circuits needed to power up and to process the signal from the sensor. By having collaborated with these big players in the industry, we are hoping to produce sustainable and low-cost sensors to be implemented in various fields, mainly in biotechnology and agriculture.

FAKULTI ALAM BINA COLLABORATES WITH BELALANG INOVASI SDN BHD, CENTRE OF EXCELLENCE FOR ENGINEERING AND TECHNOLOGY, PUBLIC WORKS DEPARTMENT OF MALAYSIA (PWD, CREATE)

The trilateral collaboration involving Belalang Inovasi Sdn Bhd, a distinguished green wall contractor specializing in design, plan and maintenance consultancy in vertical landscaping; Centre of Excellence for Engineering and Technology, Public Works Department of Malaysia (PWD, CREaTE), a governmental body overseeing infrastructure development; and Universiti Malaya, a leading academic institution, conducted from November 2020 to April 2023. Belalang Inovasi is a low maintenance green roof and



CANSELERI



green wall company based in the bustling city of Kuala Lumpur, Malaysia, founded by three engineers. With a vast knowledge on plants, Belalang is also able to offer expertise advice on ideal plants to thrive in different kind of living conditions for green walls and green roofs for living art to last even longer.

This multifaceted collaboration aims to introduce Vertical Greenery Systems (VGS) into government buildings. A prototype of an efficient and easily maintainable VGS was designed and installed on a selected government building, with continuous data monitoring. Guidelines for effective VGS installation in government buildings were developed, along with a publication summarizing findings and a detailed report of the prototype's performance.

This collaboration encompasses consultancy, research and development, and community engagement aspects. Belalang Inovasi contributes its cutting-edge expertise in designing and implementing innovative green wall solutions, enhancing urban aesthetics and environmental sustainability. The PWD's CREaTE provides regulatory guidance and supports the integration of these solutions into urban planning projects, thereby promoting eco-friendly urban development. Universiti Malaya's involvement brings research insights, intellectual contributions, and fostering the scientific underpinning of green wall technologies. The collaboration's impact resonates in the greening of public spaces, research publications, and academic resources collectively drive holistic urban transformations towards a greener future. The implementation of vertical greenery systems had a significant

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PEARL 3.0: ENGLISH LANGUAGE LITERACY EMBEDDING DIGITAL AND FINANCIAL LITERACY FOR URBAN POOR CHILDREN

This collaboration was between Universiti Malaya and Yayasan Amal ASAS. This effort is headed by Associate Professor Dr Adelina Asmawi. PEARL 3.0 is an extension of PEARL Project founded by Assoc Prof Dr Adelina Asmawi, which began in 2018. PEARL means Pedagogy of English Acquisition among

urban poor learners. Its 4th extended project is PEARL 3.0.

PEARL 3.0 is a collaboration of Universiti Malaya with the Taman Dato Harun school and urban poor community funded by Yayasan Amal ASAS. It focuses on English, digital and financial literacy as these skills are lacking among these urban poor children. Facilitated by AP Dr Adelina and 3 excellent BEd TESL student-teachers, the children gather at Jumhuriyah Mosque, Taman Dato Harun for lessons every Saturday. The focus is on nonformal learning that builds these children's motivation, interest, engagement, while developing the three skills. Lessons are infused with fun, play and drama far removed from lessons at school.

Latest development has recorded students' interest in using their knowledge of finance and language to participate in auctions with 'Pearl money'. Pearl notes were created and awarded to those who responded well, participated and engaged in class. They then participated in an auction after each session to get the items that they need.

FACULTY OF MEDICINE AND LIGNO BIOTECH SDN BHD

The Medicinal Mushroom Research Group, Department of Molecular Medicine, Faculty of Medicine, Universiti Malaya has a long-standing MOU with LiGNO Biotech Sdn Bhd. They have been collaborators as pioneers of Tiger Milk Mushroom research and development in Malaysia since 2009. LiGNO Biotech Sdn Bhd is a biotechnology company and has graciously provided all samples for research, investigational



products for clinical trials and has also played a role in providing scholarship for a master candidate (2019-2020). They have also placed several equipment in the Medicinal Mushroom laboratory to facilitate research.

In recent years, this research has progressed from bench to bedside. The first ever collaborative bench to bedside project on post chemo breast cancer patients revealed the application of tiger milk mushroom TM02® on the quality of life of the participants. Another project entitled: Malaysia's Prized Medicinal Mushroom for Respiratory Health focused on scientific research on proteins from tiger milk mushroom involved in respiratory symptoms alleviation and an open label clinical trial on a small cohort of asthmatic patients is due for completion soon. All investigational samples and products for the study has been graciously supported by LiGNO Biotech Sdn Bhd.

Most recently, a Memorandum of Agreement (MOA) between Universiti Malaya and LiGNO Biotech Sdn Bhd was established to look into the use of tiger milk mushroom for Long COVID patients. This long-standing MOU between Universiti Malaya and LiGNO has indeed benefited many in our communities – and we look forward for more collaborations to come.

FACULTY OF PHARMACY AND ALPRO PHARMACY

Alpro Pharmacy stands as one of Malaysia's premier and largest prescription pharmacy chains, operating across over

200 locations throughout the country. In collaboration with the Faculty of Pharmacy at Universiti Malaya (UM), we are jointly engaged in supporting our pharmacy students through a range of activities, including events like 'Pharmnight,' career fairs, job interviews, internships, and many more. Notably, this partnership includes a significant highlight: The provision of two esteemed scholarships, valued at RM 20,000.00 each, exclusively available to our deserving students. The company holds our students in high regard, having been thoroughly impressed with their exceptional calibre, and eagerly looking forward to fostering additional collaborations in the future.

UM LDMRC AND CYTONEX SDN BHD

LDMRC has signed MoU with Cytonex Sdn Bhd, a pharmaceutical company that focuses on stem cell therapy. We received donations of research facilities that worth about RM300,000 to set up a biophysics lab in the Faculty of Science, Universiti Malaya. We also received a postgraduate student that fully sponsored by Cytonex. Currently, we are working on a bio profile system and the prototype has been demonstrated and won many international innovation awards. We plan to have a biomaterial characterization workshop in Cytonex for LDMRC academic staff and postgraduates/undergraduates, interns from LDMRC to Cytonex (Outbound), interns from Cytonex to LDMRC (Inbound), and joint annual seminar series between LDMRC and Cytonex.

UM CAPITAL BERHAD AND THE PHOTONICS RESEARCH CENTRE

Pintas Utama Sdn. Bhd. Universiti Malaya (UM), through UM Capital Berhad and the Photonics Research Centre, has signed a Memorandum of Agreement (MoA) with Pintas Utama Sdn. Bhd. for the purpose of installing optical fibersensors in landslide-prone areas. This collaboration will see the synergy of collaboration between Pintas Utama and Universiti Malaya in developing an effective slope monitoring system, in light of recent landslide incidents across the country that have raised the need to establish an effective monitoring system to detect ground movement on high-risk slopes to reduce the risk of loss of life. Through this collaboration, Pintas Utama will provide all the needs and expertise in civil engineering works while Universiti Malaya will provide sensors based on optical fibers through expertise in the field of photonics. Interestingly, these sensors were developed by two PhD students from the Photonics Research Centre, Muhammad Syamil Mohd Sa'ad and Mohamad Ashraff Alias under the supervision of Datuk Prof. Ulung Datuk Dr. Harith Ahmad. The field test site for their system is in Blue Valley, Cameron Highland.



UM CAPITAL BERHAD AND SIME DARBY PLANTATION RESEARCH SDN. BHD.

Photonics Research Centre has partnered with Sime Darby Research Sdn. Bhd. (SDR) in 2 more research projects namely Development of High Power Laser in the Wavelength Region of 1.55 and 2.0 micron for Palm Oil Fresh Fruit Bunches Harvesting and Laser Remote Sensor for the Assessment of Oil Palm Fruit. The first project is led by Datuk Prof. Ulung Dr. Harith Ahmad, and the latter is headed by Assoc. Prof. Dr. Lim Kok Sing. These research projects worth nearly RM903,000 are fully funded by the SDR and have pioneered the use of photonic technology, especially lasers, in the palm oil plantation industry. It is in line with SDR's efforts in automating some plantation activities aimed at reducing dependence on foreign labor. These projects are the continuation of the collaboration between the two parties that started in 2021.

RESEARCH CONSULTATION ON DEVELOPMENT OF LOW COST AND EFFICIENT RECYCLING PROCESS THROUGH METAL REDUCTION OF THE BY-PRODUCT OF SODIUM BOROHYDRIDE

Nanotechnology and Catalysis Research Centre (NANOCAT) has partnered with Nanomalaysia Berhad to develop a low-cost and efficient NaBH₄ regeneration route, to reduce cost along with increasing energy efficiency, and also to close coupling of engineering assessment, economic analysis, and innovative chemical and materials research to identify and develop the

most feasible NaBH₄ pathway. To fulfill the objectives above, a UM research team under the supervision of Prof. Dr. Mohd Rafie Bin Johan and Assoc. Prof. Dr. Nader Ghaffari Khaligh successfully concluded the project on the low-cost and efficient recycling of sodium borohydride. This achievement of the project cost RM500,000 is a significant step towards democratizing technology and making solid-state hydrogen sources and storage more affordable, which is essential for realizing a cost-effective alternative path towards a hydrogen economy.

Regeneration of sodium borohydride from spent sodium borate solution in a closed cycle has been recognized as highly desirable and essential for achieving the low-cost fuel for on-board hydrogen storage systems. Energy and cost-efficient regeneration of spent NaBH₄ fuel also needs to be defined for the storage system to be viable and meet low-cost fuel for on-board hydrogen storage systems. Establish baseline costs and identify key areas for improvements and highlight the need for both high chemical and process efficiency for the development of comparable outcomes but more efficient in terms of energy and cost processes.

UM COLLABORATES WITH THE PERBADANAN TABUNG PENDIDIKAN TINGGI NASIONAL (PTPTN) TO PRODUCE KNOWLEDGEABLE AND QUALITY GRADUATES

UM and the Perbadanan Tabung Pendidikan Tinggi Nasional (PTPTN) have signed a Memorandum of Understanding

(MoU) aimed at promoting savings through the Skim Simpanan Pendidikan Nasional (Simpan SSPN) among students, as well as enhancing students' understanding and awareness of loan repayment, and strengthening the development of research and higher education to produce quality graduates.

The MoU signing ceremony was held on 3 April 2023 at the Chancellery Building, UM. The MoU was signed by UM's Vice-Chancellor, Prof. Dato' Ir. Dr. Mohd. Hamdi Abd. Shukor, together with PTPTN's Chief Executive Officer, Mr. Ahmad Dasuki Abdul Majid. Simpan SSPN is a savings instrument established by PTPTN aimed at financial planning for education purposes. PTPTN aims to help students avoid being burdened with debt, while also having good financial planning for their education in the future. Indirectly, through financial planning, graduates do not need to rely solely on loans but also use their savings to cover their study costs.

In addition, PTPTN also intends to share information about the importance of repaying PTPTN loans and financial planning with students, especially final year students, to help them become more prudent in allocating funds between loan repayment and living expenses. Until 28 February 2023, PTPTN has assisted a total of 88,409 students who are pursuing studies in various fields at UM through the provision of one-time education loans, providing them with opportunities for success.





9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



CDC welcomes your enquiries and feedback on this report.

Please email: corporate_data@um.edu.my