

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Mid-Semester Examination

Summer Semester, A. Y. 2022-2023

Course No. : BTM 4627

Time : 1.5 hours

Course Title : Enterprise Resource Planning

Full Marks : 75

Answer all 3 (three) questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin with brackets.

1. Fusheng Industrial Co. Ltd. (FICL) was established in 1953. The company, which is headquartered in Taipei, Taiwan, has branches in Sanchong (Taiwan), Beijing, Shanghai, and Zhongshan (China), Ho Chi Mine City (Vietnam), Bangkok (Thailand), Kula Lumpur (Malaysia), and Missouri (USA). FICL produces air compressors, refrigerant compressors, and generators. Over many years, the company has been investing in new technologies in order to reach perfection. FICL has earned an excellent reputation of supply chain integration from its customers all over the world. Through continuous research and application of new technology and materials, they were able to expand the production scale, improve services, and operation efficiency. In an era that highly values innovation, technology, and service, Fusheng's goal is to integrate people, information, and technology in order to become a professional service provider. FICL has more than 2300 employees.

One of the main problems the company faced was error in the inventory management system, delays in setting the accounts, slow and error-prone inter-factory transactions, etc. The company wanted to implement a system that would:

- Streamline the global operations and inter-factory transactions
- Reduce financial closing times and purchasing costs
- Improve factory management and accuracy, consistency, and transparency of data

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|---|-------------------|
| a) Describe the company's current Inventory Management Systems. | 07 (CO1)
(PO1) |
| b) To overcome the current situation, how can you solve the problem? Analyze the business value of your recommended solution. | 13 (CO2)
(PO2) |
| c) Explain the disparities in business functions before and after the implementation of your suggested systems. | 05 (CO2)
(PO2) |

2. Suppose you are the Chief Operations Officer (COO) of a medium-sized manufacturing company specializing in consumer electronics located in the United States. With the increasing complexities of modern manufacturing processes and the need for greater agility and scalability, you are considering implementing an Enterprise Resource Planning (ERP) system to streamline operations and enhance efficiency.

Your manufacturing company has been in operation for over two decades, producing a wide range of consumer electronics, including smartphones, tablets, and wearable devices. As the market for consumer electronics continues to evolve rapidly, your company faces challenges such as fluctuating demand, supply chain disruptions, and the need for continuous innovation. Traditional ERP systems have served you well in the past, but you recognize the limitations they pose in terms of flexibility, accessibility, and scalability.

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|---|----|----------------|
| a) For this kind of situation, if you want to purchase an ERP system, from which source would you want to buy? Explain the reason with some examples of your chosen sources for this kind of company. | 13 | (CO3)
(PO4) |
| b) Describe how a manufacturing company can turn into a smart factory? | 07 | (CO1)
(PO1) |
| c) Analyze why some companies have more success with ERP than others? | 05 | (CO2)
(PO2) |
| 3. a) Describe different phases in implementation of ERP systems. | 13 | (CO1)
(PO1) |
| b) "ERP Implementation is a business project and not an IT project". Justify the statement. | 05 | (CO2)
(PO2) |
| c) Explain why it is important to calculate Cost benefit analysis for ERP implementation with some examples. | 07 | (CO3)
(PO4) |