INDUSTRIAL VISIT 2

9 JAN, 2026

Summary of the Industrial Visit

About Johor Port

Johor Port provided students guidance to join business particularly in IT for the real-world.

They especially welcome students to perform their internships at Johor Port to build soft skills in working as a team, presenting projects and so on. They take about 8-9 people for internship.

ICT department is the main department for Johor Port. It is the one in charge for creation of systems in the Johor Port industry. The systems is important to organise the schedules, registrations and programs. In Johor Port, they take about 30 projects a year which is essential to be organised properly.

It is important to learn communication skills in an industry as you don't work solo in a project. Learning new skills is also essential in creating a wider projects such as focusing on two or more programming languages. The recommended languages are Python and Java since it is commonly used in today's world.

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Industrial Talk

En. Mohamad Taufik

Manager in Business Application

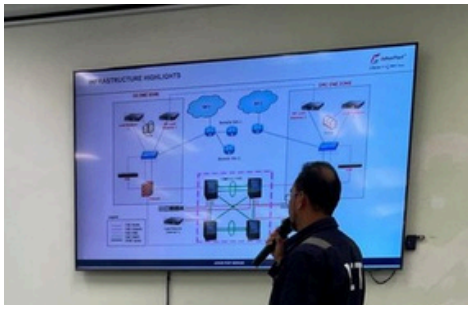
ICT is built in 4 main pillars, infrastructure, business application, project & governance and admin & helpdesk.

Infrastructure is basically the systems built like network, firewall, server and so on. Business application uses strategic application to ease the work of coding. Project & Governance uses information security and management system which helps securing the industry systems. Admin & helpdesk is the one answering calls when there's questions from clients.

Technologies Used in Business Application & Infrastructure

Business application uses JPBi e-community as the main portal or gateway for accessing Johor Port's strategic application systems such as for Container Terminal, Bulk & Break Terminal and Marine Services (MSIS). PAMS which stands for Port Access Management System is also used. It is an online, digital system used by Johor Port to manage access, permits, and security for vehicles and people entering the port area. Application development uses two approaches which is low-code platforms and traditional programming to enable faster and more flexible development. Primarily, they used low-code platforms to build internal workflow and business process applications that are not handled by strategic or backend systems. Last but not least, data analysis which is the process of inspecting, cleaning, transforming and modelling data to discover useful information, draw conclusion, and support informed decision-making in business, science, and research, turning raw numbers into actionable insights through various statistical and logical techniques.

The **Infrastructure** highlights metrocluster solution which designed to achieve continuous data availability for mission critical application. It has zero unplanned downtime through transparent fallover with protection from hardware, network, and environment faults. The network connected using fiber connection throughout Johor Port which length is about 500 km and wireless. Its benefit is it has an End-to-End continuous availability in a virtualised environment. It uses High-Level design.



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How IT Students Improves Skills for Company

IT uses coding a lot, however it is not the only skills to focus on. Communication skills is essential to work as a team in completing a project.

Learning multiple programs is also useful since each companies use different programming languages and programs. Main languages that should be tackled are Java and Python while main programs to be looked onto more are Windows and Linux.

For graphic students, they can try learning about hologram (AR & VR) since it is high-demanding. However, you do not need to use the real thing.

Amir learned about the importance of ICT infrastructure in supporting port operations. The talk explained how servers, networks, and communication systems are used to ensure smooth data flow and system stability. This visit helped him understand how strong ICT infrastructure is essential for maintaining efficiency and minimizing system disruptions.

The visit to Johor Port provided Nafis with insight into how ICT infrastructure supports daily business activities. He learned how reliable network connections and hardware systems are crucial for continuous operations. This experience increased his understanding of how infrastructure plays a key role in supporting large-scale organizations.

Reflection of Each Member About the Industrial Visit in Johor Port

Iqbal learned about business applications used at Johor Port to manage operations and information. These systems help monitor processes and support decision-making. This visit allowed him to see how business applications improve efficiency and accuracy in real working environments.

The industrial visit helped Amin understand how business applications are integrated into daily operations at Johor Port. He learned how these applications support workflow management and coordination between departments. This experience showed him how ICT systems are essential in supporting business processes.

Visiting Johor Port gave Faris a clearer understanding of how ICT infrastructure and business applications work together. He learned that strong infrastructure is needed to support reliable systems, while business applications help manage operations effectively. This visit improved his understanding of the role of ICT in an organization.

The industrial visit to Johor Port provided valuable insight into the role of ICT infrastructure and business applications in supporting port operations. The talk helped us understand how these two ICT pillars ensure system reliability, operational efficiency, and effective information management. Overall, the visit enhanced our understanding of real-world ICT practices and their importance in a professional environment.

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