

# GROUP 4 NEWSLETTER

## ASSIGNMENT 4 – INDUSTRIAL VISIT



## SECP1513 TECHNOLOGY & INFORMATION SYSTEM



## Infrastructure Highlights

- Cybersecurity & Personal Data Protection: 24/7 SOC monitoring, vulnerability assessments, penetration testing, and awareness programs.
- Data Center & Disaster Recovery: Active-active redundancy, hybrid backup (on-premise & cloud). – 4G LTE Network: Expanded coverage with satellite visualization.
- Server Architecture: VMware clusters, Oracle RAC, and high-availability storage systems.
- MetroCluster Solution: Continuous data availability, nondisruptive upgrades, and automated failover across Johor Port's fiber network.

## ICT Department Overview

- Infrastructure: Network, firewall, servers, databases, cybersecurity, automation.
- Business Applications: Strategic systems (JPB, CATOS, MSIS), ERP-RAMCO, custom app development, and advanced data analysis.
- Project & Governance: Project management, governance, and ISO/IEC information security standards.
- Admin & Helpdesk: Centralized ICT administration and one-stop helpdesk support.



08/01/2026

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## Business Application Highlights

- Data Analysis: Power BI dashboards and Python-driven insights transforming raw data into actionable intelligence.
- Application Development: Low-code platforms for rapid workflow apps, alongside traditional programming for backend systems.
- ERP RAMCO: Integrated enterprise resource planning covering HR, supply chain, finance, and port operations.

## Strategic Vision

- Enhancing digital resilience through cybersecurity and disaster recovery.
- Leveraging data-driven decision-making with advanced analytics.
- Empowering open innovation via low-code platforms and custom app development.
- Ensuring continuous availability with MetroCluster and high-performance infrastructure.

## Looking Ahead

- Expanding network coverage and connectivity.
- Strengthening automation and AI integration in port operations.
- Supporting business growth with scalable ERP and analytics solutions.

## REFLECTION

I was struck by how organised and forward-thinking Johor Port Berhad's ICT Department's operations are during my industrial visit. I now have a better understanding of how technology helps large-scale port operations because to the emphasis on cybersecurity, data analysis, and sophisticated infrastructure. I learnt from the visit that ICT is about resilience, innovation, and fostering growth in addition to systems. It was an eye-opening event that linked what was learnt in the classroom to practical applications.

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