

3229 Program Vocational Learning Outcome

Program Vocational Learning Outcomes describe what graduates of the program have demonstrated they can do with the knowledge and skills they have achieved during their studies. The outcomes are closely tied to the needs of the workplace. Through assessment (e.g., assignments and tests), students verify their ability to reliably perform these outcomes before graduating.

1. Analyze, design, and document the requirements for a secure Internet of Things computing environment to meet industry needs.
2. Implement, maintain, verify, and troubleshoot secure Internet of Things computing environments to meet industry requirements.
3. Communicate and collaborate with team members and stakeholders in a multi-disciplinary environment to ensure effective working relationships.
4. Evaluate and monitor Internet of Things projects in a multi-disciplinary environment to ensure adherence to project management and secdevops principles.
5. Evaluate the development and management of Internet of Things solutions to ensure full compliance with ethical, social, legal, regulatory, and economic requirements.
6. Enhance Internet of Things solutions by applying a process of continuous integration of new architecture and systems in response to emerging trends.
7. Design, implement, maintain, and troubleshoot data storage to optimize Internet of Things solutions.
8. Integrate secure network communications into Internet of Things solutions to adhere to protocol standards.
9. Analyze, plan, design, implement and administer Internet of Things and cloud solutions to conform to industry standards.
10. Automate tasks in the Internet of Things by applying scripting and programming languages to increase system efficiency.
11. Design, build, test and troubleshoot electronic circuits, equipment, systems, and subsystems in accordance with job requirements, functional specifications, and relevant standards.
12. Develop strategies for entrepreneurial growth and development that enhance career opportunities and maintain currency with the IT industry.