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Course, Year, & Section: BSIT – 4A

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Subject: IT 404 (Tuesday)

### **Internet of Things (IOT)**

The Internet of Things (IoT) will ultimately create an even more connected, intelligent, and efficient world both personally and professionally. As technologies develop, the IoT will become more easily integrated with AI and 5G networks, biometrics, and cloud capabilities. As well as greater capabilities of communication of data in shorter times, more reliable networks, and the ability to communicate the data to make decisions in real time for homes, cities, and industries to be more automatic and smart. IoT devices will not just collect and communicate data but also make decisions and analyze data, and in some cases, increase performance and less human behavior to make adjustments or operate. Ultimately, the IoT will continue to develop in a way that further convenience, productivity, and sustainability for modern life.

Moreover, the Internet of Things (IoT) will significantly impact future trends and innovations in the Information Technology (IT) field. It will create enormous amounts of data, leading to increased demand for analytics, cybersecurity, and data storage solutions. IT professionals will work on developing secure and scalable systems to allow billions of devices to connect and interact with one another. IoT will support the growth of smart infrastructure and intelligent healthcare systems, as well as enabling data driven business operations. In essence, the future of IoT is a more connected and intelligent world where technology is integrated into everyday life for safer, smarter, and sustainable environments.

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### **Future of Artificial Intelligence and Machine Learning**

The future of Artificial Intelligence (AI) and Machine Learning (ML) creates tremendous possibilities for changing all aspects of human life and technological advancement. These advances are expected to continue in their advancement of systems that can increasingly understand complex human behaviors, feelings, languages, and so on. In the years to come, AI and ML will create intelligent automation in areas such as self-driving vehicles and advanced healthcare systems for early detection and treatment of diseases. They will also improve personalization in many areas of life, including education, marketing, and customer service. Overall, AI and ML will provide more efficiency, flexibility, and accuracy in both daily living and in other industries.

In the field of Information Technology (IT), AI and ML will change the landscape of data management, security, and innovation. The fast, intelligent decision-making enabled by predictive analytics, automation, and the continual learning of data will be enhanced by these technologies. New forms of AI-based cybersecurity will empower more intelligent and real-time identification and prevention of emerging threats, and reinforce a more robust level of digital protection. The growing reliance on AI and ML will also require an ongoing demand for top-level experts in the IT field to develop, implement, and maintain intelligent systems. Ultimately, AI and ML represent a future of more intelligent and data-driven technology to enhance human capability for a better future of sustainable technology.