C) Applied Digital Intelligence

5607201* **เทคโนโลยีความจริงเสมือนแบบผสมผสาน** **3 (3-0-6)**

Mixed Reality (AR/VR/MR)

This course explores augmented reality, virtual reality, and mixed reality, focusing on human-computer interfaces like MR, VR, AR, and TUI. It covers interface design principles, human factors, and technology perspectives with real-world applications in medicine and entertainment. Students gain hands-on experience in creating interface applications.

5607202* **การวิเคราะห์ข้อมูล** **3 (3-0-6)**

Data Analytics

This course introduces students to the concepts/principles and applications/use cases of Data Analytics, i.e., a suite of tools based on data science and quantitative analysis designed to help businesses and enterprises mine data for information, transform information into insights, and leverage insights for improved decision making.

5607204* **อินเทอร์เน็ตของสรรพสิ่ง, โรบอติกส์ และระบบอัตโนมัติ** **3 (3-0-6)**

Tech Trifecta: IoT, Robots and Automation

This course introduces students to the elementary knowledge and applications/use cases of IoT, Robotics, and Automation, i.e., in physical form (hardware) and/or digital simulation/demonstration (software) form.

5607207 **การออกแบบและพัฒนาเกม** **3 (3-0-6)**

Game Design and Development

This course has goal for increase capability and artificial intelligence skill in Game Design and Development for in charge protocol and reduced inequalities on productions line. Students in this course use ARSA Framework and Photoshop are design and implement tools. Weekly work-in progress (WIP) reinforces learning along the way and a final project collaboration together real Organization with real MOU.

5607208* **การเรียนรู้เครื่องยนต์เชิงลึก** **3 (3-0-6)**

Machine Learning (Deep Learning)

This course extends/expands the tools/techniques and frontier developments of Machine Learning, i.e., a variety of computer algorithms based on statistical analysis and pattern recognition which, when fed with empirical data, formulate computational representation of probabilistic distribution, functional relationship, and input/output response of real entities/systems of interest.

5607209* **การเปลี่ยนแปลงของปัญญาประดิษฐ์** **3 (3-0-6)**

Artificial Intelligence Alchemy

This course investigates/explores the advanced concepts and policy implications of Artificial Intelligence, i.e., an emerging technological paradigm of digital information processing performed by computational engines capable of mimicking human interactions, processing human-machine dialogues, and generating novel constructs from algorithmically acquired knowledge base.

5607303* **การเพิ่มประสิทธภาพและจำลอง** **3 (3-0-6)**

Simulate to Optimise

This course introduces students to the elementary knowledge and applications/use cases of Algorithms and Simulation, i.e., computational recipes, expressed in the form of language-specific codes (i.e. Python, Wolfram Mathematica, etc.), instructing digital computers to perform ultimately numerical tasks which are guaranteed to converge/terminate in finite steps, producing optimal solutions, quantitative insights and/or generating domain-specific sample sequences useful for the purpose of performing further analyses.

5607304* **รหัสความเป็นอยู่ที่ดีของดิจิทัลปัญญาประดิษฐ์สำหรับสุขภาพ** **3 (3-0-6)**

The Wellness Code: Digital AI for Health

This course explores the intersection of health and well-being with Applied Digital Intelligence technologies. Students will discover how technology can address health challenges and promote well-being. By the course's end, learners will understand the relationship between health issues and digital intelligence solutions.

5607305* **ปัญญาดิจิทัลเพื่อเมืองอัจฉริยะและการพัฒนาที่ยั่งยืน** **3 (3-0-6)**

Sustainable Cities, Digital Intelligence

This course explores how to address urban and sustainability challenges using Applied Digital Intelligence technologies in the context of Smart Cities and Sustainable Development. Students will gain insight into solving these challenges through digital intelligence solutions.

5607306* **การประยุกต์ปัญญาประดิษฐ์และหุ่นยนต์ในภาคเกษตรกรรมและอุตสาหกรรม** **3 (3-0-6)**

AI and Robotics Application in Argiculture and Industry

This course introduces students to the foundational principles and the roles technicians play in this domain. The curriculum spans the historical trajectory, current state, and future potential of AI, robots, and automated systems, placing a specific focus on applications within Agriculture and industry sectors. Students will have a clear understanding of the fundamental concepts underpinning automation and robotic systems.

5607307* **ประเด็นในงานวิจัยทางศิลปศาสตร์และวิทยาศาสตร์** **3 (3-0-9)**

Current Issues in Arts and Scientific Research

This course explores the historical evolution of arts and scientific research, emphasizing their societal impact and ethical considerations. It covers contemporary ethical debates in arts and science, including research misconduct, conflicts of interest, and intellectual property. Students engage in real-world case studies to critically evaluate the ethical implications of science and art on society.

5607308* **เว็บแอพพลิเคชั่นและบล็อกเชน** **3 (3-0-6)**

Web Application and Blockchain

This course introduces students to the concepts/principles and tools/techniques of Web Application and Blockchain, i.e. the integrative design, prototyping, and development of software to implement data-secure application on digital platform.