Appendix 3: Curriculum map

Automation and Control Engineering Technology Programme

1st Year		2nd Year		3rd Year		4th Year	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester

1st Year – 1st Semester
- Introduction to ACET (2+1)
- Advanced Mathematic A1 (3)
- Advanced Mathematic A2 (3)
- C Program Language (2+1)
- General Physics A1 (3)
- General Chemistry A1 (3)
- English 1 (3)
- Physical Education 1 (1)
- Military Education

1st Year – 2nd Semester
- Electric circuit (4)
- Advanced Mathematic A3 (3)
- Complex variable & Laplace transforms (2)
- General Physics A2 (2)
- English 2 (3)
- Physical Education 2 (1)
- Fundamental principles Marxism – Leninism (5)

2nd Year – 1st Semester
- Electrical Power System (3)
- Electrical measurement and instruments (3)
- Basic Electronics (4)
- Electrical Safety (2)
- Applied statistics probability (3)
- Signals and Systems (3)
- English 3 (3)
- Physical Education 3 (3)
- General law (2)

2nd Year – 2nd Semester
- Digital Systems (3)
- Power Electronics (3)
- Data Communication (3)
- Electrical Machines (4)
- Automatic Control Systems (3)
- Measurement Engineering in Practice (1)
- Electronics in Practice (2)
- Electric in Practice (1)

3rd Year – 1st Semester
- Microprocessor (3)
- Automatic Electric Drive (3)
- Robotics (3)
- Modeling and Simulation using Computer (2)
- Electric Machine in Practice (2)
- Digital Systems in Practice (2)
- Automatic Control Systems in Practice (1)
- Ho Chi Minh's Ideology (2)
- VNese Communist Party Policy of Revolution (3)

3rd Year – 2nd Semester
- Electrical Equipment (2)
- Advanced Automatic Control Systems (3)
- Project 1 (1)
- Project 2 (1)
- Programmable Logic Controller (3)
- Microprocessor in Practice (2)
- Electric Drive in Practice (2)
- Power Electronics in Practice (2)
- 3 Elective courses (6)

4th Year – 1st Semester
- Data acquisition system and SCADA (2)
- Data Transmission and PLC Networks (3)
- Project 3 (1)
- Robotic in Practice (1)
- Programmable Logic Controller in Practice (2)
- 3 Elective courses (6)

4th Year – 2nd Semester
- Professional Development Topics (1)
- Thesis (10)
- Internship (2)

Legend
- Basic course
- Intermediate courses
- Lab/Practice courses
- Specialized courses

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