Graduate Degree Charts

➢ Required Core Courses

Sminar I
Sminar II
Sminar III
Sminar IV

➢ Analytical and Mathematical Electives

Design and Analysis of Experiments (U)3
Signals and Systems (U)3
Programing and Data Analysis with Python (U)3
Engineering Statistics (U)3
Numerical Analysis (U)3
Big Data Collection and Analysis (U)3

➢ Machinery Curriculum

Computer Aided Analysis (U)3
Special Topic on Agricultural Machinery (U)3
Machinery for Biological Production (U)3
Systems Engineering (U)3
Nondestructive evaluation (U)3
Robotics (U)3
Human Factors Engineering (U)3
Fundamental Principles of Spacial Mechanisms (U)3
Smart Greenhouse Engineering (U)3

➢ Control Curriculum

Principles and Applications of Programmable Logic Controller (U)3
Measurement and Instrumentation in Engineering (U)3
Programing and Design for Mobile Devices (U)3
Signal Processing (U)3
Intelligent Control (U)3
Image Processing (U)3
Automatic Controls (U)3
Deep Learning and Its Application in Bio-Industry (U)3
Machine Learning and Its Application for Bio-industry (U)3

➢ Biomedical Curriculum

Biomaterials (U)3
Introduction to Signal and Neuroscience (U)3
Neurophysiology (U)3
Fundamentals of Biophotonics (U)3
Bioinformatics (U)3
Surface Properties of Biomaterials (U)3
Applied Biophysics (U)3
Applied Electrochemistry (U)3