

CERTIFICATE IN CONTROL SYSTEMS

Engineers who deal with the control and optimization of systems will benefit from the focused coursework in this program, providing intensive studies in linear and non-linear systems, optimized control, controllability and stability of systems, and analysis and synthesis of control systems.

Curriculum

| Code | Title | Credit Hours |
|---|---|--------------|
| Required Courses | | |
| (6) | | |
| ECE 438 | Control Systems | 3 |
| or ECE 533 | Robust Control | |
| ECE 566 | Machine and Deep Learning | 3 |
| Elective Courses | | |
| (6) | | |
| Select a minimum of two courses from the following: | | |
| 6 | | |
| ECE 437 | Digital Signal Processing I | 3 |
| ECE 438 | Control Systems | 3 |
| ECE 441 | Smart and Connected Embedded System Design | 4 |
| ECE 501 | Artificial Intelligence and Edge Computing | 3 |
| ECE 505 | Applied Optimization for Engineers | 3 |
| ECE 506 | Analysis of Nonlinear Systems | 3 |
| ECE 510 | Internet of Things and Cyber Physical Systems | 3 |
| ECE 531 | Linear System Theory | 3 |
| ECE 533 | Robust Control | 3 |
| ECE 535 | Discrete Time Systems | 3 |
| ECE 537 | Next Generation Smart Grid | 3 |
| ECE 550 | Power Electronic Dynamics and Control | 3 |
| ECE 563 | Artificial Intelligence in Smart Grid | 3 |
| Total Credit Hours | | 12 |