

COURSE DETAIL

INTELLIGENT SYSTEMS DESIGN

Country

Singapore

Host Institution

Nanyang Technological University

Program(s)

Nanyang Technological University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

155

UCEAP Course Suffix**UCEAP Official Title**

INTELLIGENT SYSTEMS DESIGN

UCEAP Transcript Title

INTLGNT SYSTEM DSGN

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course examines selected aspects of computational intelligence methods in-depth and students develop and test intelligent automation systems. Topics include how computational intelligence methods like artificial neural networks, fuzzy systems, deep learning algorithms and computer vision have been extensively applied in the design of intelligent control and automation systems such as autonomous vehicles, visual inspection of industrial products, automated analysis and screening of volumes of medical images.

Language(s) of Instruction

English

Host Institution Course Number

EE4228

Host Institution Course Title

INTELLIGENT SYSTEMS DESIGN

Host Institution Course Details

https://wis.ntu.edu.sg/webexe/owa/aus_subj_cont.main

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Electrical and Electronic Engineering

Course Last Reviewed

2025-2026

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