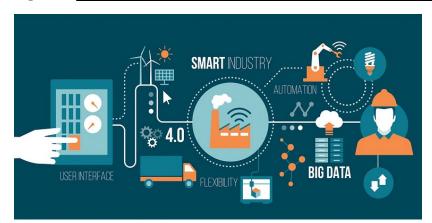
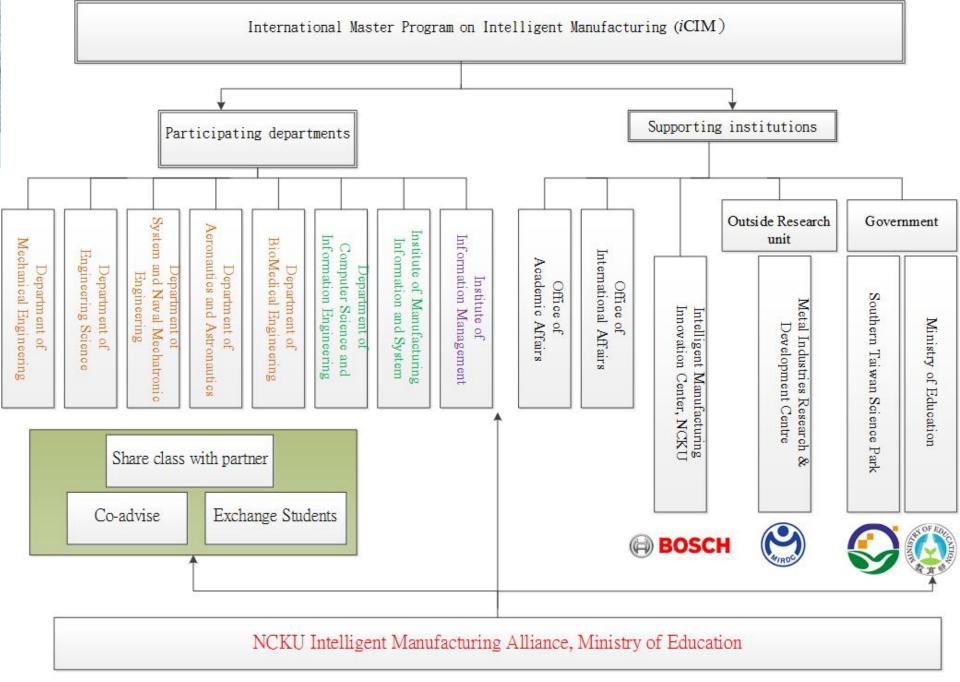
International Master Program on Intelligent Manufacturing (iCIM)

- **Educational Objective of the iCIM:** The core of the curriculum aims at technology and management of intelligent manufacturing, a key aspect of manufacturing Technologies.
- The curriculum of the *i*CIM is comprehensively co-organized by the faculties from 8 Departments of the College of Engineering, College of Electrical Engineering and Computer Science, and College of Management.
- All the *i*CIM courses are taught in English.
- **Specialized Fields:** The *i*CIM Students will learn and be engaged in the study of **Smart intelligence**, **IoT and management**, **and AI application**.







Curriculum Planning

Design

Rationale

Theories and concepts

Teach, discuss, and understand the theories and concepts of intelligent manufacturing





Practical training

Problem base learning and practice method





Workshop/ exchange students

Workshop, seminar, team project, and exchange students, etc

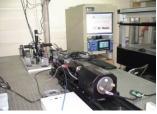
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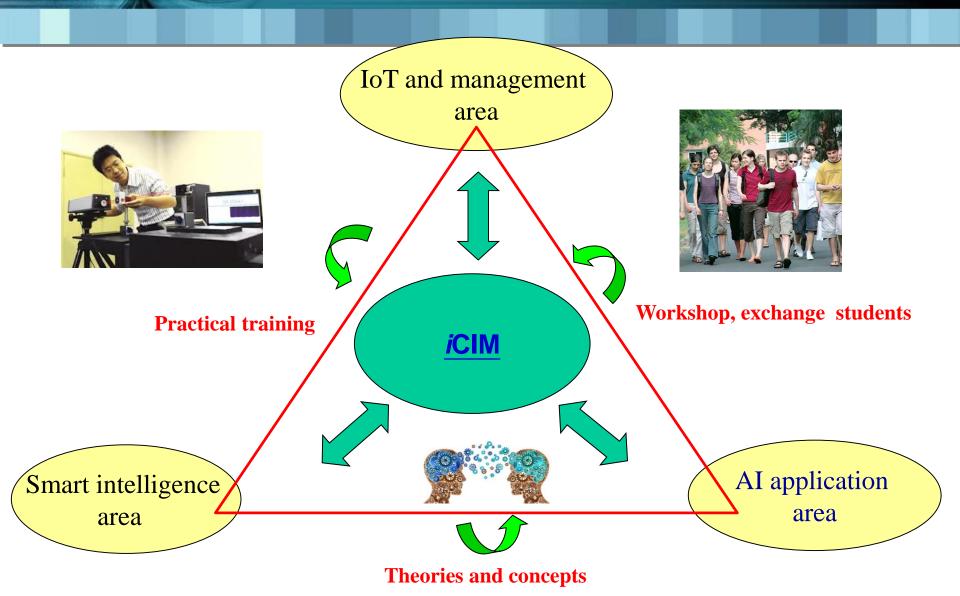
Cultivation of talent /Industrial service

Cultivate young talent and provide the platform for Industry Collaborations





Curriculum Structure



Course list

[IoT and management area]

(Smart intelligence area) MACHINE TOOL DYNAMICS MACHINE VISION INTRODUCTION TO METALLIC ADDITIVE MANUFACTURING PRECISION MACHINE DESIGN COMPUTER INTEGRATED MANUFACTURING COMPUTER AIDED MANUFACTURING COMPUTER VISION FROM THEORY TO **APPLICATIONS GRAPH THEORY** SMART SENSING AND MOBILE COMPUTING DIGITAL IMAGE PROCESSING SPECIAL TOPICS ON COMPUTER VISION DIGITAL SIGNAL PROCESSING & FILTERS BIOMEDICAL MATERIAL BIODESIGN(1) BIODESIGN(2) BIO-INSPIRED TRIBOLOGY

IOT AND BIG DATA FOR SMART MANUFACTURING PROCESS MANUFACTURING SYSTEMS E-MANUFACTURING ENTERPRISE ENGINEERING AND INTEGRATION REAL-TIME SYSTEM SPECIAL TOPICS ON INTELLIGENT MACHINE MANUFACTURING SYSTEM MANAGEMENT LEAN MANAGEMENT CYBER PHYSICAL SYSTEM SMART BUSINESS DESIGN AND IMPLEMENTION OF IOT DEVICES INTERNET OF THING(IOT): FROM THEORY TO REALITY-AN OPEN-SOURCED APPROACH INNOVATIVE DESIGN OF IOT APPLICATION

INFORMATION SECURITY

MANAGEMENT INFORMATION SYSTEMS

INDUSTRIAL INTERNET OF THINGS

SMART MANUFACTURING AND DATA MINING

OPTIMIZATION IN NETWORK MANAGEMENT INFORMATION SECURITY SYSTEMS

(AI application area) PROFESSIONAL SKILLS FOR ENGINEERING THE THIRD INDUSTRIAL REVOLUTION INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND DEEP LEARNING FOR ENGINEERS AND SCIENTISTS INTELLIGENT MANUFACTURING SYSTEMS MACHINE LEARNING INTELLIGENT COMPUTING AND MACHINE LEARNING DIGITAL SIGNAL PROCESSING SYSTEM TECHNIQUES AND R&D DESIGN OF INNOVATIVE MOBILE NETWORKS APPS GENETIC ALGORITHMS ARTIFICIAL INTELLIGENCE APPLICATION OF ARTIFICIAL INTELLIGENCE BASED ON FPGA CHIP DESIGN USABILITY AND USER INTERFACE DESIGN MANUFACTURING TECHNOLOGIES OF CYBER PHYSICAL SYSTEM OPTIMIZATION MODELS AND APPLICATIONS

Credits required

Master Program

- Course requirement
 - 24 credits (Elective subjects)
 - 4 credits (Seminar)

How to apply for the admission

- Start from fall semester of 2020
 - 12 foreign students
 - 8 domestic students

English-Taught Courses

Area	English courses	
Smart intelligence	20	
IoT and management	19	
AI application	14	
Total	53	