

10 initiatives ITS 4.0

strategy to be adaptive with industry 4.0



Digitalpreneurship



Alignment to public and industry needs



Character Building 4.0



IoT, Big Data and Intelligent Machines



IT Infrastructure



Global Network For Academic, Research and Innovation



Lifelong Education



Distance Learning



Teaching Industry



Adaptive Environment



Critical Success Factors: Digitalpreneurship

01

curriculum alignment

Aligning curriculum to be adaptive with the effort in fostering young digital entrepreneur

02

co-working space

Empowering Digital Co-Working Space of ITS with programs involving industries and public

03

seed capital

Bridging tenant to financial institution to leverage their start up business

04

coaching and training

Business coaching, mentoring and training for start up company

bridging to user

Connecting digital startup company with market and users

05

start up company

Promoting startup company among student and staff and empower them with program and supervision

06

market place

Creating various marketplaces via website or apps that facilitates students and staffs to display and sell their digital products

07

ITS for SME's

Supporting SME's with marketplace and apps to create new market and networks

08





Critical Success Factors: Distance Learning

01

MOOC

SHARE ITS as the platform for online academic course aimed at unlimited participation and open access via web

02

content exchange

Expedite the effort to enrich online course content by exchanging materials with partner universities

03

global credit transfer

global credit transfer system that allow students to use courses taken online to count towards their degrees

04

IT infrastructure

Strengthen IT infrastructure and relevant facilities to support effective online courses

course design

Designing rigid and effective course content to enable students understand thoroughly

05

support system

Institutional support in shaping the course design including educators, tutors, digital learning team and media production team

06

content management

Improve SHARE ITS content management system as the platform of ITS MOOC

07

instructor and tutor

Facilitation on online courses through competent tutor and instructors

08





Critical Success Factors: Lifelong Learning

01

online courses

Utilize **SHARE ITS** as the platform for online academic course to support the lifelong learning system

02

accessibility

Create a promotive academic system and regulation to enable student/people learn in ITS ongoing, voluntary, and self-motivated

03

RPL

Recognized the achievements of Learning from formal or non-formal or informal education, and / or work experience at ITS

training

Provide various trainings to improve the competence of student/person

05

certification

Better system for confirming the competence of students /person through a systematic review, education, assessment, or audit

06

flexible course period

Aligning academic regulation to enable student involve in academic program in a more flexible period

07





Critical Success Factors: Global Network for Academic, Research and Innovation

01

education without border

Developing global network and adaptive academic system to enable students learn at global academic environment

02

collaborative academic Program

Increase number of collaborative academic program through joint degree academic program and others

03

international mobility

Multiply the number of international mobility to provide student and staff with wide perspective and network

04

international accreditation

Pursuing international accreditation for both academic program and organization

distance learning

Empowering distance learning as a shortcut to enlarge academic network

05

collaborative Research and Innovation

Intensify international network and collaboration for joint research and innovation

06

global internship

Improving graduate competence with opportunity for international internship at industry / company

07

research and innovation matching with public needs

Aligning research and innovation with public and industry need according to core competence of ITS

08





Critical Success Factors: IoT, Big Data and intelligence machine

01

cloud computing

Acquisition on technology for computing services: servers, storage, databases, networking, software, analytics over the Internet

02

data security

Develop protective digital system to prevent unauthorized access to computers, databases and websites.

03

smart manufacture and 3D printing

Learning collaborative manufacturing systems and explore the acquisition 3D printing technology

sensors and robotics

Technology acquisition on sensors and robotics to support smart manufacturing and smart industry

05

IT infrastructure

Strengthen IT infrastructure as the backbone for IoT, Big data management and analysis as well as intelligence machines

06

artificial intelligence

Emphasizes on creation of intelligent machines, speech recognition, learning, planning, problem solving, etc

07





Critical Success Factors: Character building 4.0

01

creative

ITS creates an environment that enable student/staff bring about their imagination and original ideas to produce invention

02

cognitive

ITS provides a constructive media for student and staff to have a process of knowing and perceiving

03

collaborative

ITS nurtures a process for student and staffs to build a culture of working together with others

competitive

ITS builds a character for student and staff to contribute the best

05

cohesiveness

ITS develops a society that capable of working together towards a goal or to fulfill the needs of its members and mankind

06

compassionate

ITS provides student and staff an ability to understand and having a desire to alleviate or reduce problem in society

07





Critical Success Factors: Teaching Industry

01

applied research and innovation

focus on applied research to produce innovative products for society and industry

02

prototyping

producing industrial-scale prototypes ready to be produced in collaboration with industry, society and government

03

incubation

incubating students and communities in science, technology and the arts to produce sustainable and competitive startup industries

04

training and certification

improve the performance of training and certification in an effort to produce human resources and competitive products

seed capital

Bridging tenant (student/public) to financial institution to leverage their start up business

05

space to share

giving space to industry tenants to be able to cooperate intensively with the academic community of ITS and government

06

patent

serve intellectual property right to secure inventory rights and promote commercialization

07

bridging to industry/user

Connecting startup company with market, users and industry

08





Critical Success Factors: alignment to public and industry needs

01

curriculum

aligning the curriculum system to adapt to industry and community needs

02

research & innovation

aligning the direction of research and innovation to meet the needs of industry and society inline with the competence of ITS

03

character building

building the character of graduates who are able to adapt to technological changes in the industrial world

04

learning method

aligning learning methods that fit the character of the student and allowing students to adapt to change

infrastructure

provides an infrastructure that allows students and staff to adapt to the advancement of science, technology and the arts

05

IT support

providing IT infrastructure that is able to adapt to digital world and digital technology

06

TTO

establish technology transfer office as a service for down streaming acceleration and technological commercialization

07





Critical Success Factors: Adaptive environment

01

academic

academic environments and academic regulations allow for flexibility to improve academic performance and quality

02

financial

ease in outcome-oriented financial management without neglecting compliance with existing financial regulations

03

human resources

human resource governance that supports the civitas to excel and contribute to institutions and countries

partnership

an equal and open partnership climate to support institutional development

05

research & innovation

aligning the direction of research and innovation to meet the needs of industry and society inline with the competence of ITS

06

revenue generation

increase in revenues through supporting and commercial business units in accordance with institutional vision and core competencies

07





Critical Success Factors: IT Infrastructure

01

e-services

Intensive electronic service in one prominent application for management academic, research, financial, human resources etc.

02

smart campus

integrating building, educational services, interactive classrooms, multi-media centers, and e-services

03

data integrity platform

Establish platform for integrated data for all services in campus

ICT legal framework

ICT legal framework as ITS offers ICT to staff, students, visitors and to support the teaching, learning, research and administration duties

05

information management

Policies and procedures for centrally managing and sharing information among different individuals, and/or information systems

06

bandwidth

increase in revenues through supporting and commercial business units in accordance with institutional vision and core competencies

07



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