18 & 19 JAN 2024

ADULT LEARNING XCHANGE

OUR LEARNING FUTURES

LEARN FAST | LEARN WIDE | LEARN WELL

Organised by





Supported by

SKILLS future SG

How does a traditional university create marketable educational programmes to stay relevant?



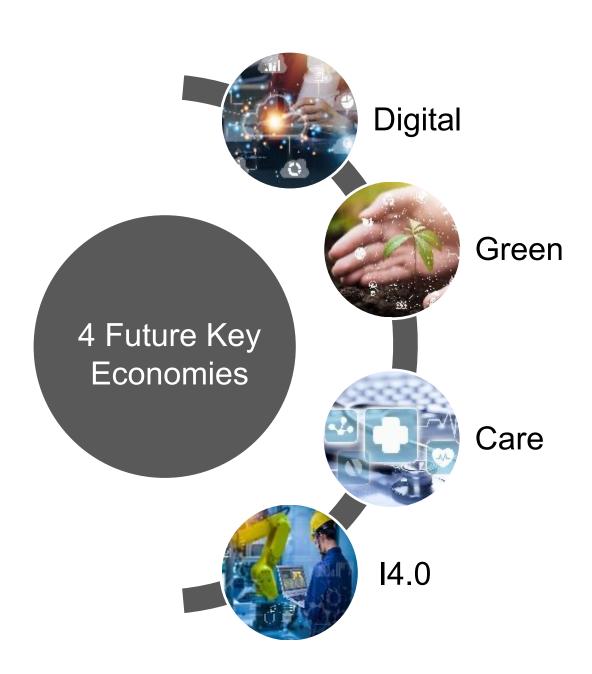
Suresh H Punjabi Associate Dean School of Continuing and Lifelong Education NUS

SKILLS THAT MATTER IN THE FUTURE

66

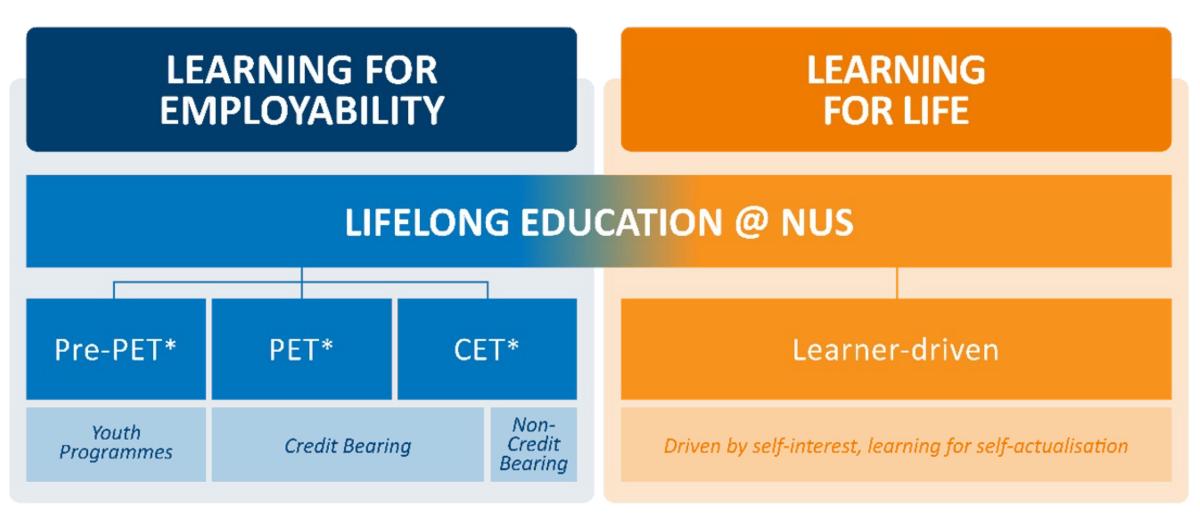
In Singapore...we do not just invest in the first 15 years of an individual's formal schooling, but we also invest in the next 50 years of [their] working life.

Chan Chun Sing
Minister for Education
NUS Lifelong Learning Festival 2022





LIFELONG LEARNING



^{*}PET: Pre-Employment Training | CET: Continuing Education and Training

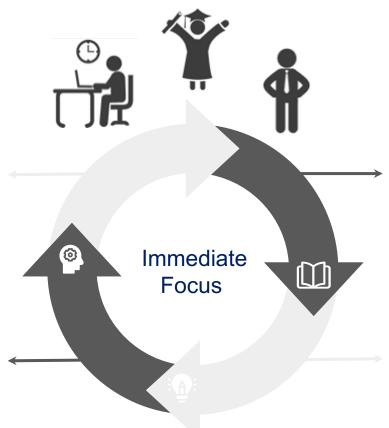
REIMAGINING LIFELONG EDUCATION @ NUS

STUDENTS FOR LIFE COMMITMENT



Integrate PET & CET

Work-study Programmes



CREDIT-BEARING / MASTER DEGREE

For deep, multi-disciplinary knowledge in emerging areas

SHORT COURSES

Bite-sized, government-funded courses for on-demand upgrading

OBJECTIVES OF LIFELONG EDUCATION @ NUS



OFFER HIGH-QUALITY INDUSTRY-RELEVANT CONTENT

Accessible to adult learners through flexible, innovative pathways & a market-driven strategy



EMPOWER ALUMNI FOR FUTURE OF WORK

Encourage alumni to embrace Lifelong Learning to remain future-ready



SUPPORT WORKFORCE & ENTERPRISE TRANSFORMATION

Partner government agencies to upskill, & help Singapore workforce & enterprises compete globally

EDUCATION REFORMS for PET

KEY DIRECTIONS

- Double degree, double major, major-minor programmes
- Interdisciplinary programmes
- 40% trained in more than one discipline

Rich, diverse learning pathways

Student-centric education

- Flexibility and choice
- Self-Directed Learning

Develop futureready graduates through an innovative education model

 Connections, lateral thinking, multiple sources of knowledge and multiple approaches

Interdisciplinary education

21st Century skills
Multiple competencies

Enhance employment outcomes

Strong foundation for lifelong learning

- Solid common curriculum
- Greater versatility

- 20-year cycle
- Modular, stackable courses
- SkillsFuture

Expanding lifelong learning

OBJECTIVE

IMPETUS
Longer working
life in complex
& turbulent
working
environment

ADULT LEARNING XCHANGE

GENERAL EDUCATION SIX PILLARS



CULTURES & CONNECTIONS

Global citizenry

Adaptability to cultural
contexts and environments



CRITIQUE & EXPRESSION

Thoughtful critique
Communication of ideas
Listening skills



SINGAPORE STUDIES

Understanding of Singapore
Historical, economic, societal,
and cultural context

Broad-based intelligences for academic and career pursuits **21**st **century skills** for academic and career pursuits



DATA LITERACY

Quantitative reasoning Numerical sense-making



DIGITAL LITERACY

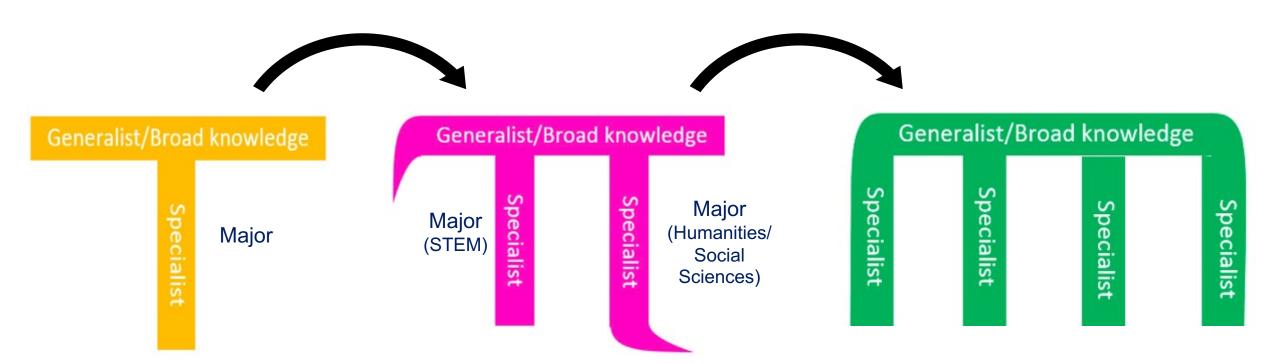
Computational thinking
Artificial intelligence



COMMUNITIES & ENGAGEMENT

Service learning
Engagement in broader
societal issues

DEVELOP FUTURE-READY GRADUATES THROUGH A LIFELONG EDUCATION MODEL



T-SHAPED COMPETENCY

Broad base with one expertise area

TT-SHAPED COMPETENCY

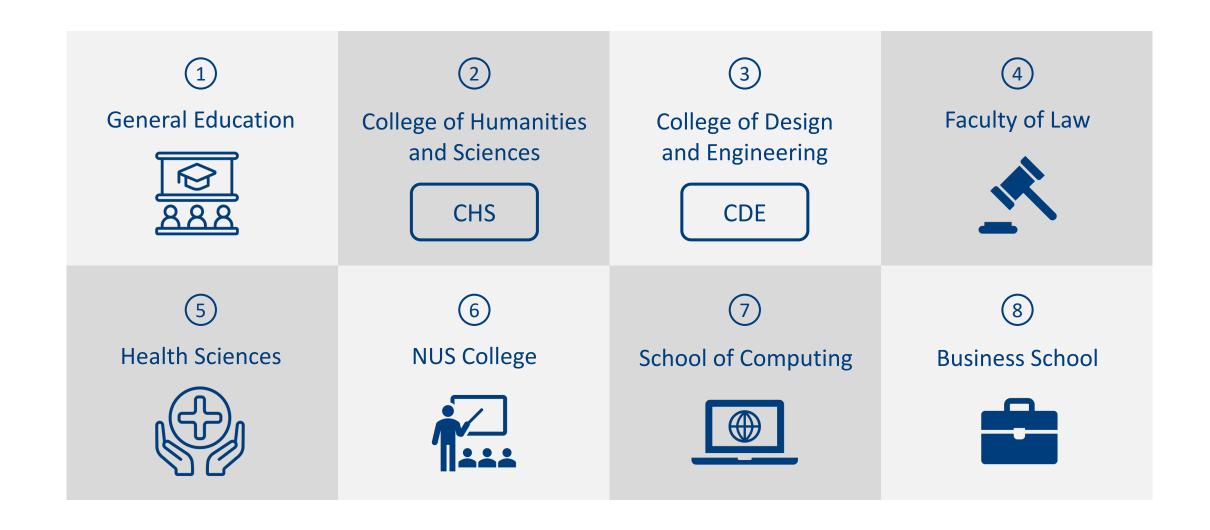
Broad base with two expertise areas

COMB-SHAPED COMPETENCY

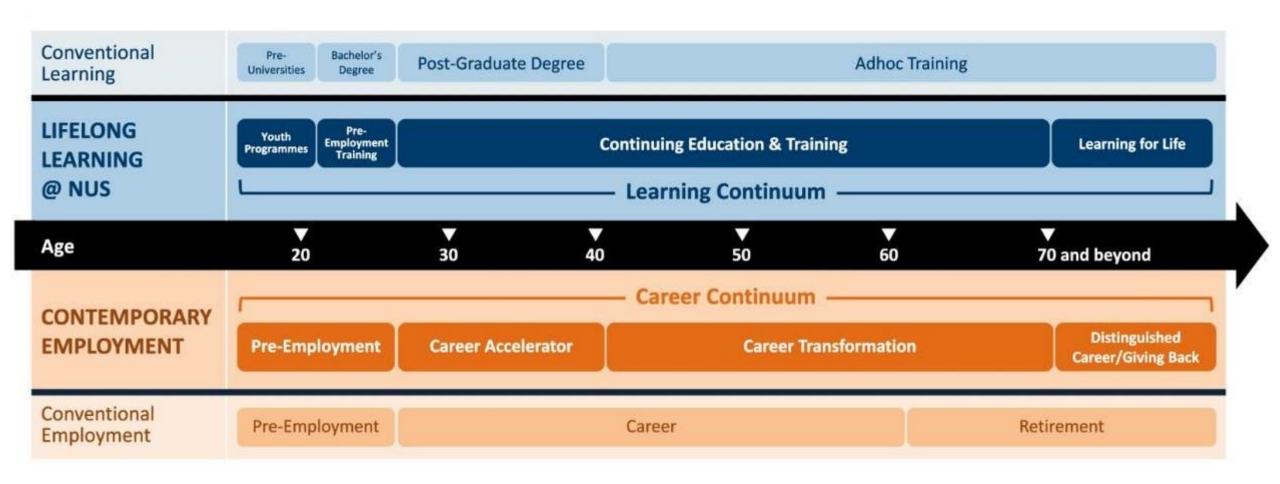
Broad base with multiple expertise areas through Lifelong Learning

EDUCATION REFORMS

KEY INITIATIVES



COMPLEMENTARY LEARNING AND CAREER CONTINUUMS (for CET)

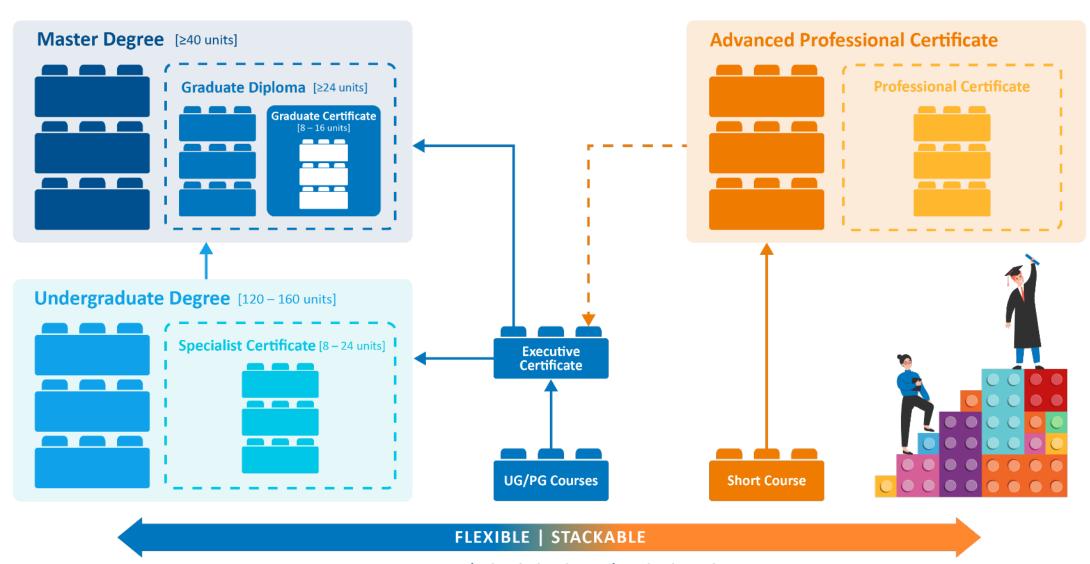


NUS MICRO-CREDENTIALS

FLEXIBILITY & STACKABILITY

CET @ NUS





Diverse Learners | Blended Delivery | Multiple Pathways

STACKING: GRADUATE CERTIFICATE



(40 Units)



Introduction to i4.0 and Applications
Digital-Physical Integration in i4.0
Data Analytics for Sense-making
Digital Infrastructure and Transformation
Industry Consulting and Application Project

&/OR

Graduate Certificate
[Internet of Things]
(10 Units)

&/OR

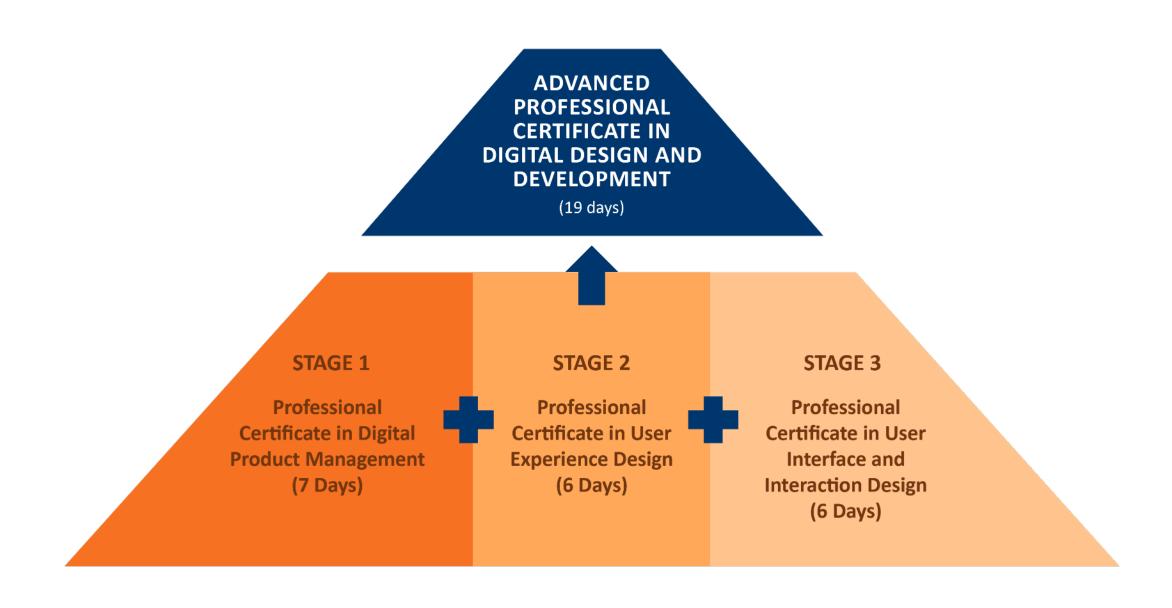
Graduate Certificate
[Robotics & Automation]
(10 Units)

Graduate Certificate
[Digital Business]
(12 Units)

Graduate Certificate
[Digital Supply Chain]
(12 Units)

&/OR

STACKING: PROFESSIONAL CERTIFICATE



INDUSTRIAL ENGAGEMENT

All You Can Learn

- Launch of NUS AYCL initiative in 2018
- Core group of strategic corporate clients
- Focus: Demand Aggregation, Deepskilling of workforce
- Renewal of AYCL Initiative in 2022
- Training places clocked to date >3400
 from AYCL partners

AYCL PARTNERS



















Collaboration with SBS Transit for enterprise formation (Sep 2022)

DEMAND-SENSING























































EXECUTIVE MASTERCLASS WITH UBS, NTUC INCOME



INAUGURAL NUS LIFELONG LEARNING FESTIVAL



AGGREGATING DEMAND FOR NICHE DEEP-TECH COURSES (SATELLITE TECHNOLOGY, **COASTAL ENGINEERING)**



5G LEARNING FESTIVAL @ NUS



SKILLSFUTURE CAREER TRANSITION PROGRAMME (SCTP)

- SkillsFuture Singapore (SSG) initiative
- Mid-career individuals acquire in-demand, industry-relevant skills
- Train & Place Programmes
 - 3 4 months
 - Training courses & other immersive learning activities
 - Career coaching and counselling services



NUS ICT ACADEMY: IMDA-APPOINTED TRAINING PARTNER

IMPETUS

RESKILL 20% of Singapore's ICT workforce disrupted by technological advances

RESPONSE

ASSEMBLE Participating Schools Committee (PSC) comprising CDE, FOS, NUS-ISS, SOC, & SCALE

ENGAGE with Industry Work Groups (IWG)

OBJECTIVE

DELIVER 3000 training places (900 in AI & related disciplines)

FACILITATE 500 job transformations through Career Conversion Programmes



NEW WORLD-CLASS, MARKET-DRIVEN, INDUSTRY-RELEVANT CET PROGRAMMES



MASTER DEGREES IN THE FUTURE ECONOMIES



Digital

MSc (Computing for Non-Computing Professionals)

MSc (Computer Engineering)

MSocSc (Communications)



Green

MSc (Sustainable and Green Finance)

MSc (Energy Systems)

MSc (Biodiversity Conservation and Naturebased Climate Solutions)



Care

MSc (Biomedical Informatics)

MSc (Biomedical Engineering)

Master of Social Work (Revamped)



i4.0

MSc (Industry 4.0)

MSc (Maritime Technology and Management)

MSc (Biotechnology)

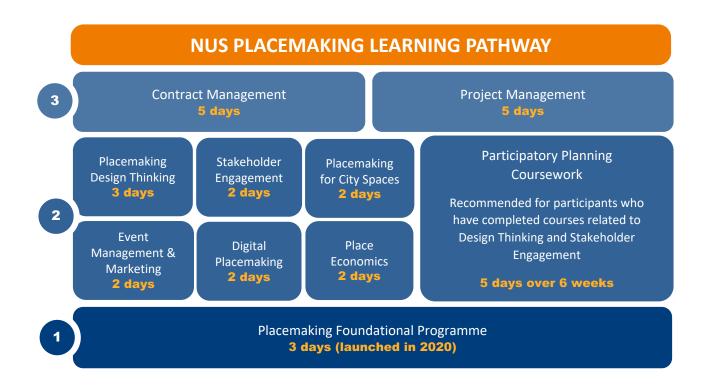
BACHELOR OF INFORMATION TECHNOLOGY (BIT)

- 120 units
- Open funnel admission
- Recognition of prior learning
- Flexible, modular workload
- Stackable pathways up to postgraduate level
- First intake AY2024/2025



PROFESSIONAL CERTIFICATE IN PLACEMAKING

- Developed by FASS, CDE, & SCALE with Urban Redevelopment Authority (URA)
- Course content & case studies influenced by URA
- Target learners: Real Estate Developers, Urban Designers & Planners
- SSG-funded
- More multi-disciplinary level 4 courses in the pipeline





PROFESSIONAL CERTIFICATE IN PSYCHOLOGICAL SCIENCE

PRE-TRAINING

Co-creation of content by NUS & Defence Psychologists

Use of MINDEF data & case studies

NUS PROFESSIONAL CERTIFICATE

PHASE 1

6-day programme

Bespoke content based on MINDEF needs

TRAIN-THE-TRAINER

PHASE 2

4-day programme

NUS assessment for fidelity

STEADY STATE

Ongoing consultation & coaching for accredited trainers

Impact measurement at individual & group levels

Up to 24 months completion time

Longitudinal data collection: Pre, Post, Follow-up



BESPOKE

CORPORATE PROGRAMMES



Workshop format



Small groups for better engagement



Attended by industry leaders



Specific, targeted content







In summary

- Future skills
- Agile and Adaptable workforce
- Responding to needs
- Listening to our customers



