

SYSTEM INITIALIZATION // YOUR ORIGIN STORY BEGINS HERE

LEVEL 1000 MODULE

NUR1131: Digital Health & AI in
Healthcare Practice

NEW COURSE BRIEFING

AY 2026/2027

Equip yourself for the AI era. Evolve from a digital user to a healthcare innovator.

A/Prof. Kevin Yap
Mr. Lee Kow Jun



Alice Lee Centre for Nursing Studies
Yong Loo Lin School of Medicine

NUS NURSING RANKED



QS WORLD UNIVERSITY
RANKINGS BY SUBJECT 2026

MEET THE TEAM



DIGITAL HEALTH

A/Prof Kevin Yap

**Pharmacist • Digital Health Strategist •
The Cyberpharmacy Futurist**

Expertise: Digital health, AI, tele/mobile health, XR/VR, serious games, emerging technologies in healthcare and education.

Digital Health Strategist & Innovation Leader: Shaped the digital health strategy of Singapore's National Pharmacy Landscape as subject matter expert; Created award-winning serious games for training of 21st century skills



DIGITAL COMPETENCY

Mr Lee Kow Jun (KJ)

Psychiatric Nurse • Lecturer

Expertise: Psychiatry & geriatric nursing in inpatient and community care

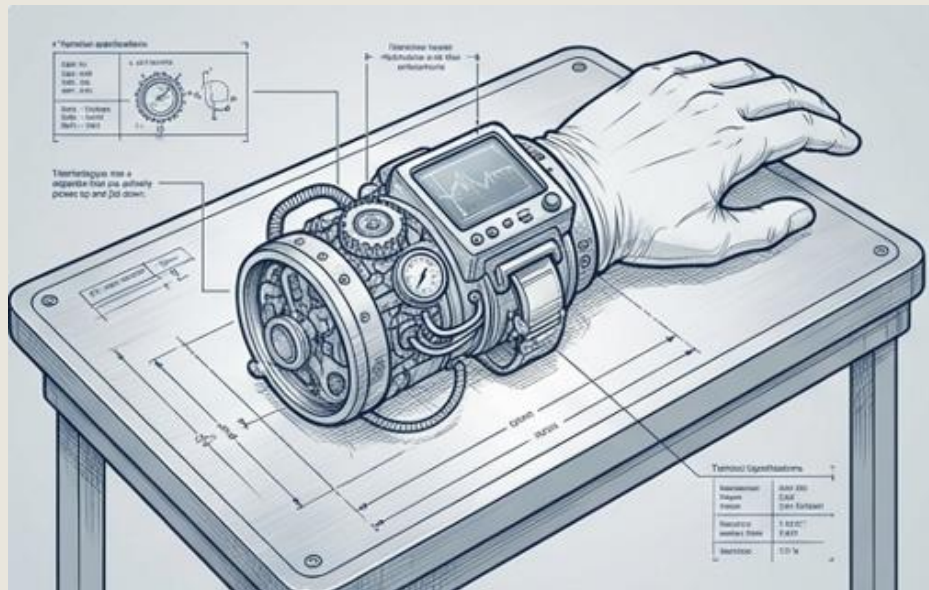
Nursing Informatics Champion: Supported nurses through major digital transformations in hospitals, from paper-based to electronic health records and EPIC.

FROM CONSCIOUS TOOL TO INSEPARABLE SUPERPOWER

THE PAST



The Assisted Tool



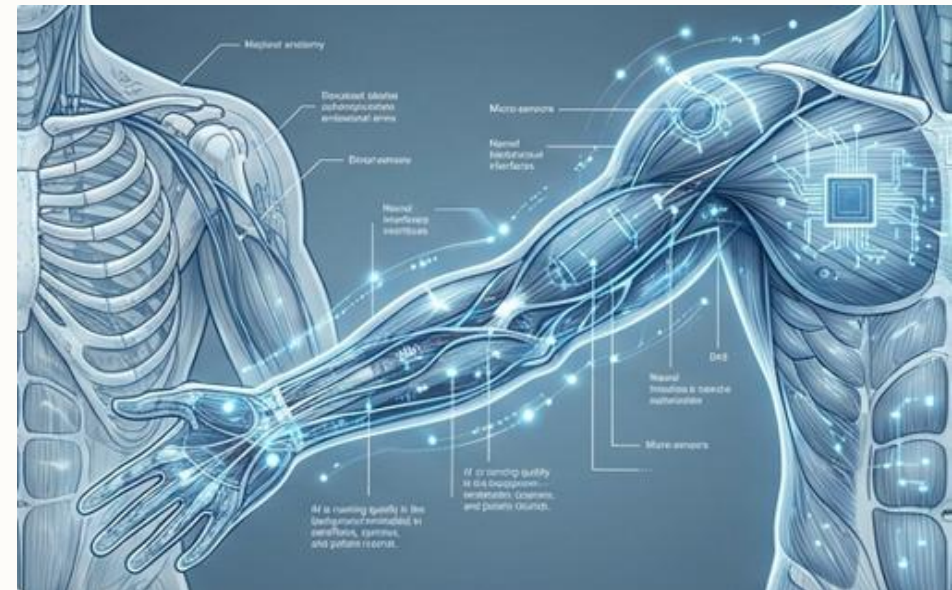
Technology was a separate tool you actively picked up and put down.



THE FUTURE



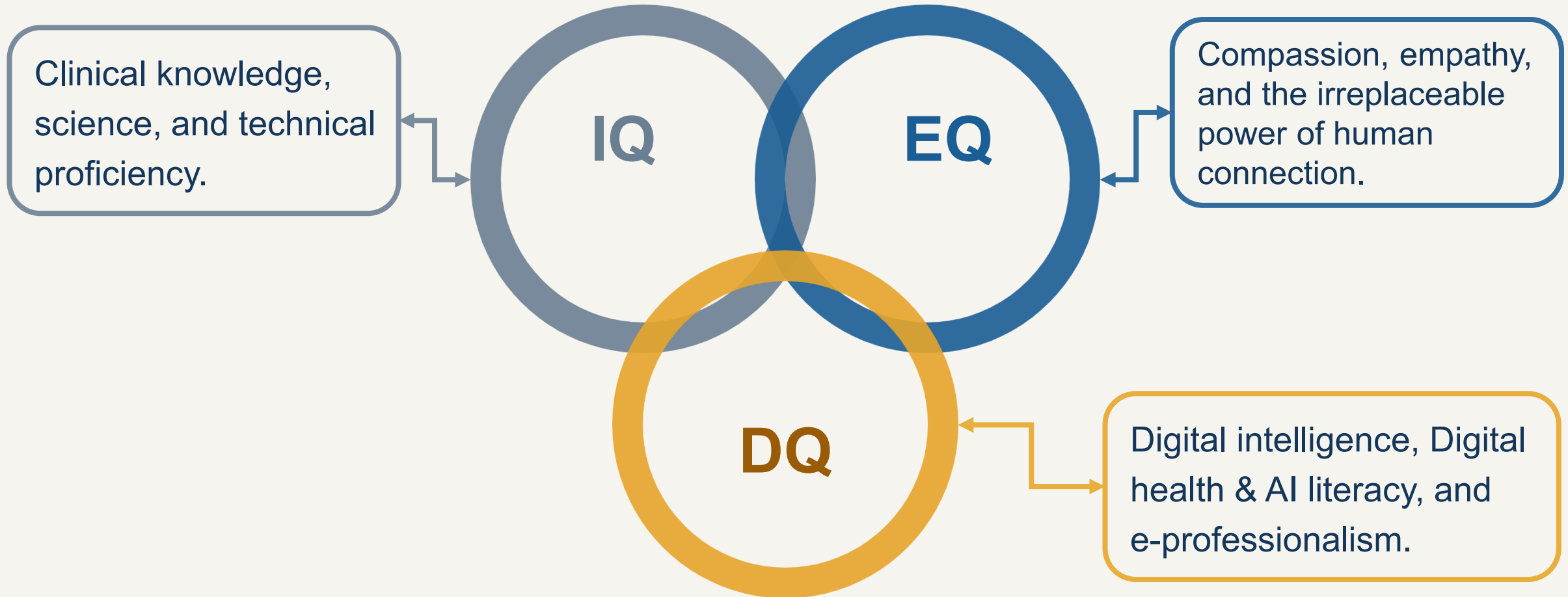
The Embedded Capability



AI is running quietly in the background — embedded in workflows, systems, and patient records.

The question isn't whether AI is here. It's how you wield it. With great power comes greater responsibility.

THE 3RD INTELLIGENCE



**You are trained in nursing science and human compassion.
But in a technology-enabled healthcare system, traditional skills are incomplete without Digital Intelligence.**

CULTIVATING YOUR NURSING ‘SPIDER-SENSE’ IN NUR1131

AI can hallucinate, exhibit bias, or lack human context. You are the ultimate human safeguard.



HOW TO BE A SENSE-MAKER

Before trusting any digital health or AI tool, apply the **N.U.R.S.E. test**:

- N Need** Does the DH/AI tool address a genuine, important problem in clinical practice?
- U Usability** Will the DH/AI tool actually work with your target populations and workflows?
- R Reliability** Is the DH/AI tool accurate, validated, and tested in a setting like yours?
- S Safety** Can you question, report, and seamlessly override unsafe outputs?
- E Escalation** Is there a clear, actionable pathway to act on what the DH/AI tool tells you?

A PARADIGM SHIFT IN NURSING EDUCATION

TRADITIONAL MODULES

- Focuses on content retention and existing protocols.
- Teaches you how to react to technology.
- Prepares you to be a digital user.



THE NUR1131 BLUEPRINT

- Focuses on **evaluative judgment** and managing rapid change.
- Empowers you to be a **digital sense-maker and safeguard**.
- Teaches you how to **innovate** with technology.



**This is not about learning how to just use tech/AI as a digital assistant.
This is about learning how to treat tech/AI as a partner in practice.**

THE TRAINING PROTOCOL: BUILDING YOUR BASELINE (PHASES A & B)

PHASE A

Can I trust it?

Making Sense of Data, Tech & AI

- Understand the **global digital health landscape**.
- Master **data governance**.
- Understand the building blocks of when to **trust AI** in healthcare ecosystems.

PHASE B

Can I judge it?

Evaluating Digital Health Tools & LLMs

- Hone your **evaluative judgment**.
- Apply evaluation frameworks to assess the **accuracy, safety, and reliability** of health information on digital health & LLM platforms as a clinical user.

PHASE C

What's my responsibility?

Up next

PHASE D

Can I shape it?

Up next

THE TRAINING PROTOCOL: BECOMING AN INNOVATOR (PHASES C & D)

PHASE A

Can I trust it?

Baseline built

PHASE B

Can I judge it?

Baseline built

PHASE C

What's my responsibility?

AI Ethics & Cybersecurity

- Use **AI ethically and responsibly**.
- Spot hidden **data privacy risks**.
- Manage your **digital breadcrumbs**.
- Build your **e-professional identity**.

PHASE D

Can I shape it?

From User to Innovator

- Embark on the **digital health innovation cycle**.
- How to **contribute** to digital health innovation
- Envision your **future profile** as a digital nurse professional.

WHATEVER YOUR STARTING POINT, YOU CAN ENROL IN THIS COURSE

Different backgrounds, experience levels and ways of learning are a strength in this course.

Come with an open mind

Leave pre-conceived notions at the door and look beyond what you are learning in your nursing curriculum.

Learn by doing

Case studies, hands-on workshops, role-play, debates and reflections.

Safe to ask, safe to not know

In digital health and AI, the “right answer” is still being figured out by all of us, your lecturers included.

Your voice counts

Share half-formed ideas, disagree respectfully, and learn as much from each other as from us.

Have learning needs or accessibility requirements? Talk to us directly.

THE MODULE AT A GLANCE

MODULE CODE

NUR1131

Digital Health & AI in Healthcare Practice

LEVEL

Level 1000

Four phases, from making sense of AI to shaping it

TEACHING TEAM

A/Prof. Kevin Yap

Mr. Lee Kow Jun

WHEN

Semester 2, AY 26/27

Class day, time and venue TBC

UNITS AND FORMAT

4 units

Variety of formats, pre-/post-reading, essential questions, personality & perception tests

ASSESSMENT

Digital Health Process Portfolio & Exam

DHPP (30%) – Reflections, real-world evaluations, DQ profile

Class Engagement & Short Quizzes (10%)

Exam (60%)



TECHNOLOGY CHANGES. BUT THE PURPOSE DOES NOT.



Florence Nightingale's lamp was a symbol of **vigilant presence and compassionate care**.

Today, that lamp is evolving into a **glowing screen**.

But the **mission remains identical**: to illuminate the path to healing, ensure safety, and advocate for those who are vulnerable.



Equip yourself to be the guiding light in a tech-enabled healthcare ecosystem.

Develop Your Digital 'Spider-Sense' to Navigate the Nursing Profession's Brand New Day

The future of healthcare doesn't just need nurses.
It needs **Sense-Makers**. It needs **Safeguards**. It needs **Innovators**.

Are you ready to level up?

ENROL IN NUR1131: DIGITAL HEALTH & AI IN HEALTHCARE PRACTICE